



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 7
901 NORTH 5TH STREET
KANSAS CITY, KANSAS 66101

JUL 01 2011

Mr. John Mitchell
Director, Division of Environment
Kansas Department of Health and Environment
1000 S.W. Jackson Street, Suite 540
Topeka, Kansas 66612-1368

Dear Mr. Mitchell:

By letter dated August 5, 2010, the Kansas Department of Health and Environment submitted new and revised Kansas Surface Water Quality Standards (WQS) to the U.S. Environmental Protection Agency for review and approval pursuant to Section 303(c) of the Clean Water Act (CWA), 33 U.S. Code (U.S.C.) § 1313(c) and the EPA's regulations at 40 Code of Federal Regulations (C.F.R.) § 131.20. The EPA received this submission on August 6, 2010. This submission included revisions to the Kansas Administrative Regulations (K.A.R.), Title 28, Article 16, which were adopted by the Secretary of Health and Environment on January 25, 2010. A revised Kansas Surface Water Register (*Register*), dated February 12, 2009, was incorporated into the K.A.R. by reference in K.A.R. 28-16-28g and submitted with these revised water quality standards.

On September 27, 2010, the EPA sent a letter to the KDHE stating that the August 5, 2010, submittal was incomplete due to missing Use Attainability Analyses (UAAAs) and 40 C.F.R. 131.10(g) factor(s) which must be cited as a basis for removing or downgrading any Clean Water Act Section 101(a) uses (e.g., contact recreation, aquatic life and food procurement). The EPA cannot act on use downgrades/removals for any water body in the *Register* without a statement from the state citing what 131.10(g) factor(s) support the recommended change in designated use, along with a reference to the evidence and/or rationale that supports this conclusion. On October 28, 2010, KDHE submitted all the missing UAAAs except Birch Creek (HUC 11070106, Segment 9034) in the Verdigris River Basin. In addition, on January 7, 2011, the KDHE submitted a statement describing some 40 C.F.R. 131.10(g) factor(s) for some waters for today's action. Today, the EPA is acting upon the partially completed submission.

Under Section 303(c) of the CWA, 33 U.S.C. § 1313(c), states are to review their WQS at least every three years and submit any revised or new WQS to the EPA for review and approval. Federal regulations at 40 C.F.R. §§ 131.20, 131.21, and 131.22 implement these requirements. Certain revisions to K.A.R. Title 28, Article 16 were adopted by the state as a result of a review of UAAAs of classified waters conducted by the KDHE. As part of the revision process, the KDHE provided notice in the March 5, 2009, *Register* of the proposed new and revised use designation for classified waters in Kansas and posted the proposed rules on the KDHE internet website. Public hearings were held on May 7, 2009, at the Curtis State Office Building in Topeka with video conference links to six remote KDHE district offices across Kansas. Based upon our review, Kansas' procedures for adoption of these new and revised WQS are consistent with and satisfy the procedural requirements at 40 C.F.R. § 131.20.

As the Acting Director of the Water, Wetlands and Pesticides Division, I am charged with the responsibility of reviewing and approving or disapproving new or revised state WQS under Section 303(c) of the CWA. With this letter, the EPA is making a decision to approve and/or disapprove the new or revised WQS submitted by the KDHE. However, the EPA is reserving action on the food procurement use designations for 438 water body segments, removal of one segment from the *Register*, and one water body segment new to the *Register* that were adopted by the KDHE on January 25, 2010. The provisions upon which action (approval or disapproval) is being taken today are listed below. Today's action will affect ~4,154 use designations. The enclosure to this letter provides a more detailed description of the EPA's rationale for approving or disapproving the new or revised WQS and reserving action on some provisions.

SECTION I - ITEMS EPA IS APPROVING

- A. Approval of the Addition and Removal of Non-101(a)(2) Use Designations for 70 Classified Lakes (Table 1)
- B. Approval of the Addition and Removal of Non-101(a)(2) Use Designations for 653 Classified Streams (Table 2)
- C. Approval of 57 Classified Stream Segments Designated Uses as Special Aquatic Life Use (Table 3)
- D. Approval of 2 Classified Stream Segments Designated as Restricted Aquatic Life Use (Table 4)
- E. Approval of 37 Classified Stream Segments Designated as Expected Aquatic Life Use (Table 5)
- F. Approval of New Food Procurement Uses for 129 Classified Streams (Table 6)
- G. Approval of Primary Contact Recreation for 3 Classified Streams - Not Subject to EPA's Promulgation for Primary Contact Recreation (Table 7)
- H. Approval of Primary Contact Recreation for Classified Streams - Subject to EPA's Promulgation
 - a. Approval of Primary Contact Recreation for 10 Classified Streams- Subject to EPA's Promulgation for Primary Contact (Table 8)
 - b. Approval of Primary Contact Recreation for 1 Classified Stream - Subject to EPA's Promulgation for Secondary Contact (Table 9)
- I. Approval of Secondary Contact Recreation for Classified Streams
 - a. Approval of Secondary Contact Recreation for 2 Classified Streams - Not Subject to EPA's Promulgation for Primary Contact Recreation (Table 10)
 - b. Approval of Secondary Contact Recreational Use Changes for 4 Classified Streams - Subject to EPA's Promulgation Primary Contact Promulgation (Table 11)
- J. Approval of 2 New Classified Stream Segment Additions to the Kansas Surface Water Register (Table 12)
- K. Approval of the Removal of 4 Classified Stream Segments from the *Kansas Surface Water Register* – Not Subject to EPA's Promulgation for Primary Contact Recreation (Table 13)

SECTION II - ITEMS EPA IS DISAPPROVING

- A. Disapproval of Primary Contact Recreational Use Removal for 1 Classified Stream

SECTION III - ITEMS ON WHICH EPA IS RESERVING ACTION

- A. Removal of Food Procurement Uses for Classified Streams (Table 14)
- B. Reserve Action on Combining Segment 10 and 11 of Arkansas River, Salt Fork (Table 15)
- C. Reserve Action on Addition of New Classified Segment (Table 16)

SECTION IV - NON SUBSTANTIVE REVISIONS

- A. Non Substantive Revisions to Classified Lakes in the *Kansas Surface Water Register* (italicized text; Table 1)

As part of the EPA's review process, the EPA initiated consultation with the U.S. Fish and Wildlife Service ("the Services") under Section 7(a)(2) of the Endangered Species Act in August 2010. Section 7(a)(2) requires that federal agencies, in consultation with the Services, insure that their actions are not likely to jeopardize the existence of federally-listed species or result in the adverse modification of designated critical habitat of such species. As of today, this consultation has not been completed. By approving the standards, "subject to the results of consultation under Section 7(a)(2) of the Endangered Species Act," the EPA retains the discretion to revise its approval decisions if the consultation identifies deficiencies in the WQS.

If you have any questions regarding this matter, please contact John DeLashmit, Chief, Water Quality Management Branch, at (913) 551-7821. The staff contact regarding this letter and enclosure is Amy Shields, and she may be reached at (913) 551-7396.

Sincerely,


Karen Flournoy
Acting Director
Water, Wetlands and Pesticides Division

Enclosure

cc: Mr. Karl Mueldener, Mr. Mike Butler, Mr. Steve Haslouer, Ms. April Dixon, KDHE
Ms. Ingrid Rosencrantz, EPA Headquarters
Mr. Mike LeValley, U.S. FWS

**EPA REGION 7'S ACTION ON THE KANSAS
AUGUST 5, 2010, KANSAS SURFACE WATER REGISTER SUBMISSION**

Under Section 303(c) of the Clean Water Act (CWA), the Administrator of the U.S. Environmental Protection Agency is charged with reviewing and approving or disapproving state-adopted water quality standards. In order to determine if new and revised state water quality standards are consistent with federal regulations and the CWA, the EPA must review the water quality standards and determine the following:

1. Whether the state has designated beneficial uses for water bodies that are consistent with the goals of the CWA § 101(a)(2) for “water quality which provides for the protection and propagation of fish, shellfish and wildlife and provides for recreation...” (fishable/swimmable), and if not, whether the state has conducted a Use Attainability Analysis (UAs) to justify a different designation;
2. Whether water quality criteria were adopted to protect the designated uses and are based on scientific rationale;
3. Whether the state has adopted water quality standards according to its legal procedures, and;
4. Whether the state submission includes the minimum elements for water quality submissions specified in 40 Code of Federal Regulations (C.F.R.) §§ 131.6 and 131.20.

**Background – Relevant Regulatory Text from the Federal Water Quality Standards
Regulation at 40 C.F.R. § 131.10 Related to Designated Uses and Use Attainability Analyses**

The EPA's regulation at 40 C.F.R. § 131.10 describes the regulatory requirements related to designated uses. Consistent with the CWA Sections 101(a)(2) and 303(c)(2)(A), 40 C.F.R. § 131.10 provides the following requirements:

- (a) Each state must specify appropriate water uses to be achieved and protected. The classification of the waters of the state must take into consideration the use and value of water for public water supplies, protection and propagation of fish, shellfish, and wildlife, recreation in and on the water, agricultural, industrial, and other purposes including navigation. In no case shall a state adopt waste transport or waste assimilation as a designated use for any waters of the United States.
- (b) In designating uses of a water body and the appropriate criteria for those uses, the state shall take into consideration the water quality standards of downstream waters and shall ensure that its water quality standards provide for the attainment and maintenance of the water quality standards of downstream waters.
- (c) States may adopt sub-categories of a use and set the appropriate criteria to reflect varying needs of such sub-categories of uses, for instance, to differentiate between cold water and warm water fisheries.
- (d) At a minimum, uses are deemed attainable if they can be achieved by the imposition of effluent limitations required under Sections 301(b) and 306 of the CWA and cost-effective and reasonable best management practices for nonpoint source control.

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(e) Prior to adding or removing any use, or establishing sub-categories of a use, the state shall provide notice and an opportunity for a public hearing under § 131.20(b) of this regulation.

(f) States may adopt seasonal uses as an alternative to reclassifying a water body or segment thereof to uses requiring less stringent water quality criteria. If seasonal uses are adopted, water quality criteria should be adjusted to reflect the seasonal uses; however, such criteria shall not preclude the attainment and maintenance of a more protective use in another season.

(g) States may remove a designated use which is not an existing use, as defined in § 131.3, or establish subcategories of a use if the state can demonstrate that attaining the designated use is not feasible because:

(1) Naturally occurring pollutant concentrations prevent the attainment of the use; or

(2) Natural, ephemeral, intermittent or low flow conditions or water levels prevent the attainment of the use, unless these conditions may be compensated for by the discharge of sufficient volume of effluent discharges without violating state water conservation requirements to enable uses to be met; or

(3) Human caused conditions or sources of pollution prevent the attainment of the use and cannot be remedied or would cause more environmental damage to correct than to leave in place; or

(4) Dams, diversions, or other types of hydrologic modifications preclude the attainment of the use, and it is not feasible to restore the water body to its original condition or to operate such modification in a way that would result in the attainment of the use; or

(5) Physical conditions related to natural features of the water body, such as the lack of a proper substrate, cover, flow, depth, pools, riffles, and the like, unrelated to water quality, preclude attainment of aquatic life protection uses; or

(6) Controls more stringent than those required by Sections 301(b) and 306 of the CWA would result in substantial and widespread economic and social impact.

(h) States may not remove designated uses if:

(1) They are existing uses, as defined in § 131.3, unless a use requiring more stringent criteria is added; or

(2) Such uses will be attained by implementing effluent limits required under Sections 301(b) and 306 of the CWA and by implementing cost-effective and reasonable best management practices for nonpoint source control.

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- (i) Where existing water quality standards specify designated uses less than those which are presently being attained, the state shall revise its standards to reflect the uses actually being attained.
- (j) A state must conduct a use attainability analysis as described in § 131.3(g) whenever:
 - (1) The state designates or has designated uses that do not include the uses specified in Section 101(a)(2) of the CWA; or
 - (2) The state wishes to remove a designated use that is specified in Section 101(a)(2) of the CWA or to adopt subcategories of uses specified in Section 101(a)(2) of the CWA which require less stringent criteria.
- (k) A state is not required to conduct a use attainability analysis under this regulation whenever designating uses which include those specified in Section 101(a)(2) of the CWA.

The EPA's regulatory definition of a UAA is found in 40 C.F.R. § 131.3(g):

“Use attainability analysis is a structured, scientific assessment of the factors affecting attainment of a designated use, which may include chemical, physical, biological and economic factors as described in § 131.10(g).”

The purpose of a UAA is to determine the highest attainable use for a water body and provide the supporting documentation when a state or tribe refines its designated uses. The EPA requires that a UAA provide sufficient information to support a technical and legally defensible determination that a “fishable/swimmable” use is not attainable and to support the designation of any use that does not include the “fishable/swimmable” use (40 C.F.R. § 131.6(f)). In other words, there must be an adequate scientific and technical rationale in the administrative record to support the resulting use change. UAAs must have sufficient data and information to demonstrate that attaining the fishable and/or swimmable use is not feasible (using one or more of the 40 C.F.R. § 131.10(g) factors as cited above), and the analysis must identify and result in the adoption of the “highest attainable use,” which should reflect the factors and constraints that were evaluated as part of the UAA process. In identifying the highest attainable use, the same regulatory factors and the data analysis applied to support removing a use should also be applied to determine the highest attainable use. The EPA interprets the CWA’s objectives at Sections 303(c) and 101(a)(2) of the CWA to mean that, “wherever attainable,” waters must protect the CWA Section 101(a)(2) uses and that states should be striving to attain the CWA Section 101(a)(2) uses by designating the attainable use as close to a CWA Section 101(a)(2) use as possible (i.e., the highest attainable use).

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KS WQS Submission

The EPA's decision regarding the February 12, 2009, Kansas Surface Water Register¹ (*Register*) is summarized below. The majority of the EPA's action today centers on the KDHE's revisions to additional non-101(a)(2) uses for classified stream segments and classified lakes. The KDHE also revised aquatic life, contact recreation and food procurement designated uses in the *Register*.

The EPA's Review of the KDHE's UAAs and Subsequent Designated Use Changes

The EPA reviewed the KDHE's UAAs to determine if they were sufficient to make a technically and legally defensible demonstration that CWA Section 101(a)(2) uses (e.g., primary contact recreation, human health and/or aquatic life uses) are not attainable or existing. In addition, the EPA reviewed the KDHE's UAAs to determine if the non-CWA Section 101(a)(2) uses (e.g. domestic water supply use, irrigation use) were not attainable. The EPA conducted its analysis pursuant to its implementing federal regulations, specifically 40 C.F.R. §§ 131.5, 131.6(a), (b), (f) and 131.10. These regulations govern states' adoption of designated uses by requiring states to meet the following standards:

- (1) adopt use designations consistent with the provisions of Sections 101(a)(2) and 303(c)(2) of the CWA (40 C.F.R. § 131.6(a));
- (2) submit methods used and analyses conducted to support WQS revisions (40 C.F.R. § 131.6(b));
- (3) submit general information which will aid the agency in determining the adequacy of the scientific basis of the standards which do not include the uses specified in Section 101(a)(2) of the CWA (40 C.F.R. § 131.6(f));
- (4) set forth the circumstances and process by which states adopt and revise their designated uses as discussed previously in this enclosure (40 C.F.R. § 131.10).

This is required to enable the EPA to determine whether the state standards which do not include the uses specified in Section 101(a)(2) are based upon appropriate technical and scientific data and analyses as required under 40 C.F.R. § 131.5. In reviewing Kansas' submittal, the EPA considered the KDHE's own Guidance Document for Use Attainability Analyses² when reviewing and evaluating the recreational use UAAs because the submitted UAAs reference the depth criteria guidelines as noted below. Ultimately, however, the EPA relied upon the factors set forth in 40 C.F.R. § 131.10(g) as the basis for the EPA's decision on the KDHE's revisions to its designated uses.

¹ Adopted by reference in K.A.R. 28-16-28g.

² <http://www.kdheks.gov/befs/uaas/UAGuidance.pdf>

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SECTION 1 – PROVISIONS EPA IS APPROVING

A. Approval of the Addition and Removal of Non-101(a)(2) Use Designations for Classified Lakes

Based on the results of UAAs performed, the state adopted new or revised non-101(a) use designations for 70 classified lakes in the February 12, 2009, *Register*. The Kansas WQS define additional use designations beyond the CWA required “fishable/swimmable” use in the Kansas Statutes Annotated (K.S.A.) 82a-2001(c) and amendments thereto. These additional uses are identified as:

- 1) Domestic water supply use, the use of classified surface waters other than classified stream segments, after appropriate treatment, for the production of potable water,
- 2) Groundwater recharge, the use of classified surface waters other than classified stream segments for replenishing fresh or usable groundwater resources. This use may involve the infiltration and percolation of classified surface waters other than classified stream segments through sediments and soils or the direct injection of classified surface waters other than classified stream segments into underground aquifers,
- 3) Industrial water supply use, the use of classified surface waters other than classified stream segments for non-potable purposes by industry, including withdrawals for cooling or process water,
- 4) Irrigation use, the withdrawal of classified surface waters other than classified stream segments for application onto land, and
- 5) Livestock watering use, the provision of classified surface waters other than classified stream segments to livestock for consumption.

These new or revised uses are considered to be non-101(a)(2) uses (i.e., not fishable/ swimmable). The EPA has reviewed the associated UAAs that demonstrate these new or revised non-101(a)(2) use designations are consistent with CWA § 303(c) and implementing regulations in 40 C.F.R. §§ 131.5 and 131.6 and are hereby approved. For reference, we have noted these new or revised non-101(a)(2) uses to classified lakes in Table 1 of this Enclosure.

B. Approval of the Addition and Removal of Non-101(a)(2) Use Designations for Classified Streams

Based on the results of UAAs performed, the state adopted new or revised non-101(a) use designations for 653 classified stream segments in the February 12, 2009, *Register*. The Kansas water quality standards define additional use designations beyond the CWA required “fishable/ swimmable” use in the K.S.A. 28a-2001(c) and amendments thereto. These additional uses are identified as:

- 1) Domestic water supply use, the use of a classified stream segment, after appropriate treatment, for the production of potable water,

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- 2) Groundwater recharge, the use of a classified stream segment for the replenishing of fresh or usable groundwater resources. This use may involve the infiltration and percolation of surface water through sediments and soils or the direct injection of surface water into underground aquifers,
- 3) Industrial water supply use, the use of classified stream segments for nonpotable purposes by the industry, including withdrawals for cooling or process water,
- 4) Irrigation use, the withdrawal of water from a classified stream segment for application onto land, and
- 5) Livestock watering use, the provision from a classified stream segment to livestock for consumption.

These new or revised uses are considered to be non-101(a)(2) uses (i.e., not “fishable/ swimmable”). The EPA has reviewed the associated UAAs for proposed changes for these uses that demonstrate these new or revised non-101(a)(2) use designations are consistent with CWA § 303(c) and implementing regulations in 40 C.F.R. §§ 131.5 and 131.6 and are hereby approved. For reference, the EPA has noted these new or revised non-101(a)(2) uses to classified stream segments in Table 2 of this Enclosure.

C. Approval of Classified Stream Segments Designated as Special Aquatic Life Use

Based on the results of UAAs performed, the state adopted special aquatic life use designations for 57 classified streams in the February 12, 2009, *Register*. These streams were previously designated with expected aquatic life.

Regulations in the K.S.A. 82a-2001 define special aquatic life designation as:

Special aquatic life use waters, means classified stream segments that contain combinations of habitat types and indigenous biota not found commonly in the state, or classified stream segments that contain representative population of threatened or endangered species, that are listed in rules and regulations promulgated by the Kansas Department of Wildlife and Parks or the U.S. Fish and Wildlife Service.

Kansas differentiates special aquatic life from expected aquatic life and restricted aquatic life through the allowance of the implementation of a mixing zone. Regulations in the K.A.R. 28-16-28c(b)(8) define the mixing zone for these aquatic life uses as:

Special aquatic life use waters: If the ratio of the receiving stream critical low flow to the discharge design flow is equal to or greater than 3:1, the mixing zone shall not exceed 25 percent of the cross-sectional area or volumetric flow of the receiving stream during critical low flow conditions, measured immediately upstream of the discharge during the critical low flow.

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Expected aquatic life use waters: If the ratio of the receiving stream critical low flow to the discharge design flow is equal to or greater than 3:1, the mixing zone shall not exceed 50 percent of the cross-sectional area or volumetric flow of the receiving stream during critical low flow conditions, measured immediately upstream of the discharge during the critical low flow.

Restricted aquatic life use waters: If the ratio of the receiving stream critical low flow to the discharge design flow is equal to or greater than 3:1, the mixing zone shall not exceed 100 percent of the cross-sectional area or volumetric flow of the receiving stream during critical low flow conditions, measured immediately upstream of the discharge during the critical low flow.

The KDHE determined that these 57 streams “contain combinations of habitat types and indigenous biota not commonly found in the state” after conducting UAAs. The EPA finds that these special aquatic life use designations are consistent with the CWA § 101(a)(2) and implementing regulations in 40 C.F.R. §§ 131.5 and 131.6. For reference, the EPA has noted these new special aquatic life uses to classified stream segments in Table 3 of this Enclosure.

D. Approval of Restricted Aquatic Life Use for Classified Streams

Based on the results of the UAAs performed, the state adopted restricted aquatic life use designations for two classified stream segments in the February 12, 2009, *Register*. These streams were previously designated with the expected aquatic life use designation. The submitted UAAs document that threatened and endangered species were not present according to KDHE’s Guidance Document for Use Attainability Analysis.³ In addition, the KDHE also demonstrated in the UAAs that the streams conditions were not consistent with the expected aquatic life definition as described below. However, the CWA and the implementing regulations at 40 C.F.R. § 131.10(j)(2) allow states to revise a designated use without a UAA when the numeric water quality criteria are not less stringent and will still protect the aquatic life use. In this instance, the state’s numeric criteria are identical for both restricted, expected and special aquatic life use designations, with the distinction being the amount of the receiving stream allowed for use as a mixing zone as the difference.

Regulations in the K.S.A. 82a-2001 define restricted aquatic life designation as:

Restricted aquatic life use waters means classified stream segments containing indigenous biota limited in abundance or diversity by the physical quality or availability of habitat, due to natural deficiencies or artificial modifications, compared to more suitable habitats in adjacent waters.

The EPA finds that these restricted aquatic life use designations are consistent with the implementing regulations in 40 C.F.R. §§ 131.5 and 131.6. For reference, the EPA has noted these new restricted aquatic life uses to classified stream segments in Table 4 of this Enclosure.

³ Guidance Document for Use Attainability Analyses, December 1, 2001; <http://www.kdheks.gov/befs/uaas/UAAGuidance.pdf>

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E. Approval of Classified Stream Segments Designated as Expected Aquatic Life Use

Based on the results of the UAAs performed, the state adopted expected aquatic life use designations for 37 classified streams in the February 12, 2009 *Register*; these streams were previously designated with special aquatic life.

Regulations in the K.S.A. 82a-2001 define expected aquatic life designation as:

Expected aquatic life use waters, means classified stream segments containing habitat types and indigenous biota commonly found or expected in the state.

The EPA finds that these expected aquatic life use designations are consistent with the CWA § 101(a)(2) and implementing regulations in 40 C.F.R. §§ 131.5 and 131.6. The KDHE demonstrated in the UAAs that threatened and endangered species were not present according to the KDHE's Guidance Document for Use Attainability Analysis.⁴ For reference, the EPA has noted these new expected aquatic life use designations in Table 5 of this Enclosure.

F. Approval of New Food Procurement Uses for Classified Streams

Based on the results of UAAs performed, the state adopted new food procurement use designations for 129 classified streams in the February 12, 2009, *Register*.

Regulations in K.S.A. 82a-2001 define the Food Procurement designation as:

Food procurement: Use of a classified stream segment for the obtaining of edible forms of aquatic or semiaquatic life for human consumption.

The EPA finds that these food procurement use designations are consistent with CWA § 101(a)(2) and implementing regulations in 40 C.F.R. §§ 131.5 and 131.6. For reference, the EPA has noted these new food procurement uses to classified stream segments in Table 6 of this Enclosure.

G. Approval of Primary Contact Recreation for Classified Streams - Not Subject to the EPA's Promulgation for Primary Contact Recreation

Based on the results of the UAAs performed, the state adopted primary contact recreation use designations for 3 classified stream segments in the February 12, 2009, *Register*.

Regulations in the K.S.A. 82a-2001 define the three subcategories of primary contact recreational use for classified stream segments based on stream access⁵:

⁴ Guidance Document for Use Attainability Analyses, December 1, 2001; <http://www.kdheks.gov/befs/uaas/UAAGuidance.pdf>

⁵ The EPA Decision letter to KDHE on 11/3/2003

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Primary contact recreational use: Class A: Use of a classified stream segment for recreation during the period from April 1 through October 31 of each year, and the classified stream segment is a designated public swimming area. Water quality criterion for bacterial indicator organisms applied to Class A waters shall be set at an illness rate of eight or more per 1,000 swimmers. The classified stream segment shall only be considered impaired for primary contact recreational use-Class A if the calculated geometric mean of at least five samples collected in separate 24-hour periods within a 30-day period exceeds the corresponding water quality criterion. The water quality criterion for primary contact recreational use-Class A waters during the period November 1 through March 31 of each year shall be equal to the criterion applied to secondary contact recreational use-Class A waters.

Primary contact recreational use: Class B: Use of a classified stream segment for recreation, where moderate full body contact recreation is expected, during the period from April 1 through October 31 of each year, and the classified stream segment is by law or written permission of the landowner open to and accessible by the public. Water quality criterion for bacterial indicator organisms applied to Class B waters shall be set at an illness rate of 10 or more per 1,000 swimmers. The classified stream segment shall only be considered impaired for primary contact recreational use-Class B if the calculated geometric mean of at least five samples collected in separate 24-hour periods within a 30-day period exceeds the corresponding water quality criterion. The water quality criterion for primary contact recreational use-Class B waters during the period November 1 through March 31 of each year shall be equal to the criterion applied to secondary contact recreational use-Class A waters.

Primary contact recreational use: Class C: Use of a classified stream segment for recreation, where full body contact recreation is infrequent during the period from April 1 through October 31 of each year, and is not open to and accessible by the public under Kansas law and is capable of supporting the recreational activities of swimming, skin diving, water-skiing, wind surfing, boating, mussel harvesting, wading or fishing. Water quality criterion for bacterial indicator organisms applied to Class C waters shall be set at an illness rate of 12 or more per 1,000 swimmers. The classified stream segment shall only be considered impaired for primary contact recreational use-Class C if the calculated geometric mean of at least five samples collected in separate 24-hour periods within a 30-day period exceeds the corresponding water quality criterion. The water quality criterion for primary contact recreational use-Class C waters during the period November 1 through March 31 of each year shall be equal to the criterion applied to secondary contact recreational use-Class B waters.

It is important to note the EPA's statement in its 2003 Decision letter to the KDHE that:

"while 'landowner permission' may serve as an indicator of whether access to a water body is probable, the EPA does not endorse the presence or absence of 'landowner permission' as an indicator of whether primary contact recreation is an appropriate use designation for a water body. State law regarding the protection of private property is a

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separate issue from – and is unaffected by – a determination under the CWA as to the level of protection appropriate for a water body. Likewise, the level of recreational protection afforded a water body under the CWA neither grants nor restricts permission to use that water for recreation.”

The EPA has reviewed the KDHE’s UAAs for new or revised primary contact recreation use designations for three streams, and hereby approves the new and revised designations based on this record. These classified stream segments were not included in the EPA’s July 2003 promulgation.⁶ The complete list of classified streams approved by the EPA for primary contact recreation that were not subject to the EPA’s July 2003 promulgation are identified in Table 7 of this Enclosure. For comparison, the EPA has also identified the previous contact recreation designation listed in the *Register* dated December 19, 2007, in Table 7.

H. Approval of Primary Contact Recreation for Classified Streams - Subject to the EPA’s Promulgation

a. Approval of Primary Contact Recreation for Classified Streams- Subject to the EPA’s Promulgation for Primary Contact

Based on the results of the UAAs performed, the state adopted primary contact recreation, Class C, use designations for 10 classified stream segments in the February 12, 2009, *Register*. The EPA has reviewed the KDHE’s UAAs for Kansas’ new or revised primary contact recreation use designations, and hereby approves the new and revised designations based on the submitted record. These waters for which the KDHE has submitted new or revised use designations are subject to the EPA’s July 7, 2003, promulgation action and are identified in Table 8 of this Enclosure. In the 2003 promulgation, the EPA promulgated federal regulations establishing primary or secondary contact recreation use designations for 1,286 waters and an expected aquatic life use designation for one water. For comparison, the EPA has also identified the previous contact recreation designation listed in the *Register* dated December 19, 2007, in Table 8.

b. Approval of Primary Contact Recreation for Classified Streams - Subject to the EPA’s Promulgation for Secondary Contact

Based on the results of the UAAs performed, the state adopted a primary contact recreation, Class C, use designation for one classified stream segments in the February 12, 2009, *Register*. The EPA has reviewed the KDHE’s UAA for Kansas’ new or revised primary contact recreation use designation for this stream, and hereby approves the new and revised designation based on this record. This classified stream segment was included in the EPA’s July 2003 promulgation for secondary contact recreation. This water for which the KDHE has submitted a revised use designation is subject to the EPA’s July 7, 2003, promulgation action discussed above. The classified stream approved by the EPA for primary contact recreation that was subject to the EPA’s July 2003 promulgation is identified in Table 9 of this Enclosure. For comparison, the EPA has also identified the previous contact recreation designation listed in the *Register* dated December 19, 2007, in Table 9.

⁶ See, 68 Federal Register, 40428

I. Approval of Secondary Contact Recreation (SCR) for Classified Streams

Regulations in the K.S.A. 82a-2001 define the two subcategories of SCR use for classified stream segments based on stream access⁷:

Secondary contact recreational use is the use of a classified stream segment for recreation, provided such classified stream segment is capable of supporting the recreational activities of wading, fishing, canoeing, motor boating, rafting or other types of boating where the body is not intended to be immersed and where ingestion of surface water is not probable.

Secondary contact recreational use-Class a: Use of a classified stream segment for recreation capable of supporting the recreational activities of wading or fishing and the classified stream segment is by law or written permission of the landowner open to and accessible by the public. Water quality criterion for bacterial indicator organisms applied to secondary contact recreational use-Class a waters shall be nine times the criterion applied to primary contact recreational use-Class b waters. The classified stream segment shall only be considered impaired for secondary contact recreational use-Class A if the calculated geometric mean of at least five samples collected in separate 24-hour periods within a 30-day period exceeds the corresponding water quality criterion.

Secondary contact recreational use-Class b: Use of a classified stream segment for recreation capable of supporting the recreational activities of wading or fishing and the classified stream segment is not open to and accessible by the public under Kansas law. Water quality criterion for bacterial indicator organisms applied to secondary contact recreational use- Class b waters shall be nine times the criterion applied to primary contact recreational-Class C use waters. The classified stream segment shall only be considered impaired for secondary contact recreational use-Class B if the calculated geometric mean of at least five samples collected in separate 24-hour periods within a 30-day period exceeds the corresponding water quality criterion.

Since Kansas established less stringent numeric bacteria criteria to protect SCR uses pursuant to 40 C.F.R. § 131.10(j)(2), a UAA must be conducted before adopting the SCR use for a specific water. The EPA evaluated the depth data in the UAA and other available data to determine whether the information supported the state's conclusion that the primary contact recreational uses (PCR A, B, C) were not attainable for these waters. The EPA also evaluated the KDHE's determination that the stream assessments were conducted during representative stream flow conditions; this information is essential to ensure that the attainability of the use is adequately assessed. The KDHE focused primarily on the extent to which the size, depth and flow of the water would not be sufficient to support activities which may result in prolonged and direct contact with the water and involve considerable risk of ingesting water in quantities sufficient to pose a health hazard. The KDHE assigned a secondary contact recreational use to water bodies where the maximum depth measurements were less than one meter or

⁷ The EPA Decision letter to KDHE on 11/3/2003

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the average depth was less than 0.5 meters (at base flow) and no other information indicated that primary contact recreation was attainable.

The KDHE's conclusions in the UAAs are supported by the field data sheets which state that the depth measurements demonstrate that there is not adequate depth for primary contact recreation in these streams. Further, no other information was received for these waters indicating that primary contact recreation is an attainable use (e.g., public comments). In cases where the depth and/or flows are sufficiently low, the factor cited by the KDHE at 40 C.F.R. § 131.10(g)(2) is relevant in assessing whether primary contact recreational uses are attainable. That factor specifies that a designated use may be removed if attaining the designated use is not feasible because "natural, ephemeral, intermittent or low flow conditions or water levels prevent the attainment of the use, unless these conditions may be compensated for by the discharge of sufficient volume of effluent discharges without violating state water conservation requirements to enable uses to be met." The EPA has determined that these assessments were conducted during a normal seasonal stream flow condition where water levels may prevent the attainment of the primary contact recreational use. The KDHE's designation of these waters with a SCR use, Class b, is consistent with the EPA's implementing regulations at 40 C.F.R. §§ 131.5, 131.6, and 131.10(c) which allows states to adopt sub-categories of uses, and are hereby approved.

a. Approval of Secondary Contact Recreation for Classified Streams - Not Subject to the EPA's Promulgation for Primary Contact Recreation

Based on the results of UAAs performed, the state adopted SCR, Class b, use designations for two classified stream segments in the February 12, 2009, *Register*. The EPA has reviewed the KDHE's UAAs for Kansas' new or revised secondary contact recreation use designations, and hereby approves the new and revised designation based on this record as discussed in the body of Section I above. The KDHE's secondary contact recreation, Class b, use designation for these waters is consistent with the goals of Section 101(a)(2) of the CWA and the EPA's implementing regulations at 40 C.F.R. §§ 131.5, 131.6 and 131.10, and are hereby approved. These classified stream segments were not included in the EPA's July 2003 promulgation for secondary contact recreation and are identified in Table 10 of this Enclosure. For comparison, the EPA has also identified the previous contact recreation designation listed in the *Register* dated December 19, 2007, in Table 10.

b. Approval of Secondary Contact Recreational Use Changes - Subject to the EPA's Promulgation Primary Contact Promulgation

Based on the results of UAAs performed, the state adopted SCR, Class b, use designations for four classified stream segments in the February 12, 2009, *Register*. The EPA has reviewed the KDHE's UAAs for Kansas' new or revised SCR use designations, and hereby approves the new and revised designation based on this record as discussed in the body of Section I above. The KDHE's SCR use designation for these waters is consistent with the EPA's implementing regulations at 40 C.F.R. §§ 131.5, 131.6 and 131.10, and are hereby approved. These classified stream segments were included in the EPA's July 2003 promulgation for primary contact recreation and are identified in Table 11 of this Enclosure. For comparison, the EPA has also identified the previous contact recreation designation listed in the *Register* dated December 19, 2007, in Table 11.

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J. New Classified Stream Segments Which the EPA is Approving Addition to the Kansas Surface Water Register

Based on the results of the UAAs performed, the state added two new stream segments and their use designations in the February 12, 2009, *Register*. The EPA has reviewed the KDHE's UAAs for Kansas's new revised primary contact recreation and aquatic life use designations, and hereby approves the new and revised designations based on this record.

The KDHE adopted Conner Creek (HUC 10240011, Segment 6368) and designated the stream with a PCR, Class C, use designation and expected aquatic life use. The EPA has reviewed the state's UAAs for these use designations, and hereby approves the new and revised designation based on this record. The EPA finds that the use designations are consistent with the CWA § 101(a)(2) and implementing regulations in 40 C.F.R. §§ 131.5 and 131.6.

The KDHE also adopted Rock Creek (HUC 10300101, Segment 881) and designated the stream with the Expected aquatic life use and SCR, Class a, use designation. The EPA finds that the expected aquatic life use designation is consistent with the CWA § 101(a)(2) and implementing regulations in 40 C.F.R. §§ 131.5 and 131.6.

The EPA provided public comments to the KDHE in a comment letter dated May 7, 2009, during the KDHE's public comment period for these WQS revisions, stating that some UAAs were conducted on streams in urban areas, yet no primary contact recreational use was assigned in accordance with the KDHE's UAA Guidance⁸. The KDHE responded in "Response to Comments" submitted to the EPA on August 5, 2010, that the KDHE is in the process of changing the Guidance Document for Use Attainability Analyses to reflect changes due to HB 2219⁹, which changed the definitions of primary contact and secondary contact in the state. The EPA has reviewed the KDHE's UAAs for Kansas's new secondary contact recreation use designation, and hereby approves the new and revised designation based on this record as discussed in Section I above. The complete list of newly classified streams approved by the EPA is identified in Table 12 of this Enclosure.

K. Classified Stream Segments Which the EPA is Approving Removal from the Kansas Surface Water Register – Not Subject to the EPA's Promulgation for Primary Contact Recreation

Based on the results of the UAAs performed, the state removed 4 classified stream segments and their use designations in the adopted February 12, 2009, *Register*. The EPA has reviewed the KDHE's UAAs, and hereby approves removal based on this record. The K.S.A. 82a-2001, as amended, provides a definition of what is a "classified" stream under Kansas state law.

⁸ Guidance Document for Use Attainability Analyses, December 1, 2001;
<http://www.kdheks.gov/befs/uaas/UAAGuidance.pdf>

⁹ Senate Substitute for Substitute for HOUSE BILL No. 2219; <http://www.kansas.gov/government/legislative/bills/2004/2219.pdf>; this Bill repealed and amended KSA Supp. 82a-2001.

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"Classified stream segments" shall include all stream segments that are waters of the state as defined in subsection (a) of K.S.A. 65-161, and amendments thereto, and waters described in subsection (d) of K.S.A. 65-171d, and amendments thereto, that:

- are indicated on the federal Environmental Protection Agency's reach file 1 (RF1) (1982) and have the most recent 10-year median flow of equal to or in excess of one cubic foot per second based on data collected and evaluated by the United States geological survey or in the absence of stream segment flow data, calculations of flow conducted by extrapolation methods provided by the United States geological survey;
- have the most recent 10-year median flow of equal to or in excess of one cubic foot per second based on data collected and evaluated by the United States geological survey or in the absence of stream segment flow data, calculations of flow conducted by extrapolation methods provided by the United States geological survey;
- are actually inhabited by threatened or endangered aquatic species listed in rules and regulations promulgated by the Kansas department of wildlife and parks or the United States fish and wildlife service;
- scientific studies conducted by the department show that during periods of flow less than one cubic foot per second stream segments provide important refuges for aquatic life and permit biological recolonization of intermittently flowing segments; and
- a cost/benefit analysis conducted by the department and taking into account the economic and social impact of classifying the stream segment indicates that the benefits of classifying the stream segment outweigh the costs of classifying the stream segment, as consistent with the federal clean water act and federal regulations; or
- are at the point of discharge on the stream segment and downstream from such point where the department has issued a national pollutant discharge elimination system permit other than a permit for a confined feeding facility, as defined in K.S.A. 65-171d, and amendments thereto.
- Classified stream segments other than those described in subsection (a)(1)(E) shall not include ephemeral streams; grass, vegetative or other waterways; culverts; or ditches.
- Any definition of classified stream or "classified stream segment" in rules and regulations or law that is inconsistent with this definition is hereby declared null and void.

In order to be a classified stream segment (and therefore have any use designations assigned), the stream must meet one of the criteria described by the statute above. The effect of removing a stream from the *Register* is to remove all use designations assigned to that water. The CWA and the implementing regulations at 40 C.F.R. § 131.10(g) allow states to remove a use that is not an existing use¹⁰ based on a demonstration made with a UAA.

The KDHE UAAs document that these four streams only carry water during extreme runoff events; these four streams are therefore "dry" the vast majority of the time. The documentation in the UAAs

¹⁰ Existing uses are those uses actually attained in the water body on or after November 28, 1975, whether or not they are included in the water quality standards (40 C.F.R. § 131.3)

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demonstrates that the absence of water in these stream segments prevents the attainment of any aquatic life and recreation use. The KDHE verified the lack of water by submitting additional information to the EPA on October 28, 2010, that showed that the stream segments have been dry for at least 10 years. KDHE's additional information includes Google Earth links showing aerial photographs taken during the 1990s and 2000s. These historical photographs show dry stream beds likely caused by intense groundwater use for irrigation purposes. Continued, similar land use practices utilizing extensive irrigation may cause the dry, ephemeral conditions of these streams to persist. If the land use practices change and these streams return to flowing conditions, the EPA expects the state to add these waters, along with appropriate designated uses, to the state's *Register*.

The CWA and the implementing regulations at 40 C.F.R. § 131.10(g) allow states to remove a use that is not an existing use based on the results of a UAA. Further, 40 C.F.R. § 131.10(g)(2) allows a designated use to be removed or subcategories to be established when it is determined that "natural, ephemeral, intermittent or low flow conditions or water levels prevent the attainment of the use...." The KDHE cited the factor 40 C.F.R. § 131.10(g)(2) when removing the designated uses from the four classified stream segments. These factors were submitted to the EPA via email on January 7, 2011. The EPA has reviewed the KDHE's UAAs upon which the removal of these waters from the *Register* is based; the UAAs demonstrate that there is insufficient water present to support contact recreational and aquatic life uses. The EPA is approving the removal of these four streams in the Cimarron River Basin as "classified" stream segments from the *Register*.

The complete list of classified streams approved by the EPA for removal from the state *Register*, that were not subject to the EPA's July 2003 promulgation are identified in Table 13 of this Enclosure.

SECTION II – WATER QUALITY STANDARDS THE EPA IS DISAPPROVING

A. Disapproval of Primary Contact Recreational Use Removal for Classified Stream

The EPA's review of one KS UAA identified data submitted for the assessed water body segment where the depth data did not support removing the primary contact recreational use subject to the EPA's July 2003 promulgation.¹¹ The KDHE survey crew observed a 60" deep pool at Pony Creek (HUC 10240008; Segment 38) site C. This pool met depth requirements for primary contact recreation as defined in the protocol and this is stated in the UAA Memorandum submitted to the EPA. The KDHE stated this isolated pool did not represent the stream reach as a whole. This pool was observed by the KDHE in 2004 and again in 2007. Primary contact recreation can take place in an isolated pool within a stream reach, even if the other sites had an average depth less than 0.5 meter. In other words, primary contact recreation may take place in isolated pools within a stream reach even if the pools are not representative of the reach as a whole. Potential recreational users will seek out pools for recreation without regard to whether the pools are representative of the remainder of the stream segment. The EPA disagrees with this approach because primary contact recreation is attainable if it is possible at any location within a stream reach. Federal regulations, at 40 C.F.R. § 131.10, do not allow removal of a use

¹¹ See, 68 Federal Register, 40428

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designation if that use is attainable. Therefore, the EPA disapproves the revisions to Pony Creek and the designated use, SCR, Class b.

SECTION III: ITEMS WHICH THE EPA IS RESERVING ACTION ON

The EPA requires that a UAA provide sufficient information to support a technical and legally defensible determination that a “fishable/swimmable” use is not attainable and to support the designation of any use that does not include the “fishable/swimmable” use (40 C.F.R. § 131.6(f)). There must be an adequate scientific and technical rationale in the administrative record to support the resulting use change. The UAAs must have sufficient data and information to demonstrate that attaining the fishable and/or swimmable use is not feasible (using one or more of the 40 C.F.R. § 131.10(g) factors), and the analysis must identify and result in the adoption of the “highest attainable use,” which should reflect the factors and constraints that were evaluated as part of the UAA process. In identifying the highest attainable use, the same regulatory factors and the data analysis used to support removing a use should also be used to determine the highest attainable use. The EPA interprets the CWA’s objectives at Sections 303(c) and 101(a)(2) of the CWA to mean that, “wherever attainable,” waters must protect the CWA Section 101(a)(2) uses and that states should be striving to attain the CWA Section 101(a)(2) uses by designating the attainable use as close to a CWA Section 101(a)(2) use as possible (i.e., the highest attainable use).

A. Reserving Action on the Removal of Food Procurement Uses for Classified Streams

In the adopted *Register* dated February 12, 2009, the KDHE removed the food procurement use designation for 100 classified streams and added that 338 classified streams segments did not support the food procurement use as identified in Table 14 of this Enclosure. The EPA is reserving action on these water body segments until sufficient information (including one or more of the 40 C.F.R. § 131.10(g) factors) is submitted from the state to conclude that food procurement is not attainable or is not an existing use for these water bodies.

B. Reserving Action on Combining Segment 10 and 11 of Arkansas River, Salt Fork

In the adopted *Register* dated February 12, 2009, the KDHE removed Arkansas River, Salt Fork (HUC11060002; Segment 11) from the list of waters of the state on the rationale that the KDHE was combining segments 10 and 11 of the Arkansas River, Salt Fork. However, the *Register* dated February 12, 2009 submitted to the EPA does not include a change to the latitude and longitude to the upper and lower reaches of segment 10; therefore, it does not appear that segments 10 and 11 were combined. The KDHE notified the EPA via email on January 7, 2011, that the KDHE will be submitting a new *Register* with new information because of an error in 2009, and that the latitude and longitude will be corrected in the next *Register*. The EPA is reserving action on the removal of the water body segment listed in Table 15 of this Enclosure.

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C. Reserving Action on Addition of a New Classified Segment

The KDHE added Birch Creek (HUC 11070106; Segment 9034) in the Verdigris River Basin to the *Register* dated February 12, 2009, with an expected aquatic life use designation and a secondary contact recreation, Class b, use designation. In the EPA's September 27, 2010 letter to the KDHE, the EPA stated that there were some missing UAAs from the states' submittal on August 5, 2010. In response to this comment, the KDHE submitted the missing UAAs requested except the UAA for Birch Creek. The KDHE notified the EPA that a UAA will be submitted in the future to the EPA for this water body. Consistent with these discussions, the EPA is therefore reserving action on the water body segment listed in Table 16 of this Enclosure.

SECTION IV: NON SUBSTANTIVE REVISIONS

Non-Substantive Revisions to Classified Lakes in the *Kansas Surface Water Register*

The EPA notes the appropriateness of the KDHE's revisions to the 2009 *Register* for changes in the Lake Monitoring (LM) stations of classified lakes. These changes do not require the EPA review and approval. Therefore, no action is taken. For thoroughness, the EPA has noted these changes in italics in Table 1 of this Enclosure.

The following terms are used in the tables and are defined below.

a	Secondary Contact Recreation, Class a
AL	Aquatic Life
b	Secondary Contact Recreation, Class b
B	Primary Contact Recreation, Class B
C	Primary Contact Recreation, Class C
CI	Cimarron River Basin
CR	Contact Recreation
DS	Domestic Water Supply Use
E	Expected aquatic life
FP	Food Procurement Use
GR	Groundwater Recharge Use
HUC	Hydrologic Unit Code
IR	Irrigation Use
IW	Industrial Water Supply Use
KR	Kansas/Lower Republican River Basin
LA	Lower Arkansas River Basin
LM	Lake Monitoring Station
LW	Livestock Watering Use
MC	Marais Des Cygnes River Basin
MO	Missouri River Basin
NE	Neosho River Basin
PCR	Primary Contact Recreation

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S	Special aquatic life
SFL	State Fishing Lake
VE	Verdigris River Basin

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Table 1: Approval of the Addition and Removal of Non-101(a)(2) Use Designations for Classified Lakes. New and revised designations are shown in bold and are underlined. “X” denotes assigned designated use. “O” denotes non-support of designated use. Project names that were changed in the 2009 *Register* are italicized.

#	Basin	Lake	HUC 8	County	LM	DS	GR	IW	IR	LW
1	KR	Belleville City Lake	10250017	Republic	LM060701	X	O	X	X	X
2	KR	Cedar Crest Lake	10270102	Shawnee	<i>LM020101</i>	X	O	X	X	X
3	KR	Jeffrey Energy Center W.A.	10270102	Pottawatomie	LM039501	X	O	X	X	X
4	KR	Lake Sherwood	10270102	Shawnee	<i>LM020201</i>	X	O	X	X	X
5	KR	Pillsbury Crossing W.A.	10270102	Riley	<i>LM020301</i>	X	X	X	X	X
6	KR	Wamengo City Lake	10270102	Pottawatomie	LM062101	X	X	X	X	X
7	KR	Banner Creek Lake	10270103	Jackson	LM032001	X	O	X	X	X
8	KR	Elkhorn Lake	10270103	Jackson	LM061001	X	X	X	X	X
9	KR	Little Lake	10270103	Brown	LM062601	X	O	X	X	X
10	KR	Nebo SFL	10270103	Jackson	LM061501	X	O	X	X	X
11	KR	Prairie Lake	10270103	Jackson	LM061901	X	O	X	X	X
12	KR	Antioch Park Lake	10270104	Johnson	LM067701	X	O	X	X	X
13	KR	Cedar Lake	10270104	Johnson	LM061601	X	O	X	X	X
14	KR	Lake Dabanawa	10270104	Jefferson	LM054001	X	O	X	X	X
15	KR	Lakeview Estates Lake	10270104	Shawnee	LM075301	X	O	X	X	X
16	KR	Lone Star Lake	10270104	Douglas	LM011401	X	O	X	X	X
17	KR	Mahaffie Farmstead Lake	10270104	Johnson	<i>LM020401</i>	X	O	X	X	X
18	KR	Mary's Lake	10270104	Douglas	LM061401	X	X	X	X	X
19	KR	New Olathe Lake	10270104	Johnson	LM061301	X	O	X	X	X
20	KR	North Park Lake	10270104	Wyandotte	LM062701	X	X	X	X	X
21	KR	Overbrook City Lake	10270104	Osage	<i>LM020501</i>	X	O	X	X	X
22	KR	Potter's Lake	10270104	Douglas	LM073401	X	O	X	X	X

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#	Basin	Lake	HUC 8	County	LM	DS	GR	IW	IR	LW
23	KR	Shawnee Mission Lake	10270104	Johnson	LM041801	X	O	X	X	X
24	KR	Sunflower Park Lake	10270104	Johnson	LM073601	X	O	X	X	X
25	KR	Rocky Ford W.A.	10270205	Riley	LM020601	X	X	X	X	X
26	KR	Lake Idlewild	10270207	Marshall	LM061201	X	X	X	X	X
27	LA	Carey Park Lake	11030010	Reno	LM063001	X	X	X	X	X
28	LA	Barton Lake	11030011	Barton	LM072701	X	X	X	X	X
29	LA	Sterling City Lake	11030011	Rice	LM064801	X	X	X	X	X
30	LA	Dillon Park Lakes	11030012	Reno	LM063101	X	X	X	X	X
31	MC	Harveyville Lake	10290101	Wabaunsee	LM040801	X	X	X	X	X
32	MC	Osage City Reservoir	10290101	Osage	LM066101	X	X	X	X	X
33	MC	Osawatomie City Lake	10290101	Miami	LM066201	X	X	X	X	X
34	MC	Richmond City Lake	10290101	Franklin	LM046801	X	O	X	X	X
35	MC	Spring Creek Park Lake	10290101	Douglas	LM066801	X	O	X	X	X
36	MC	Louisburg Old Lake	10290102	Miami	LM065701	X	O	X	X	X
37	MC	Miola Lake	10290102	Miami	LM051001	X	O	X	X	X
38	MC	Parker City Lake	10290102	Linn	LM066301	X	O	X	X	X
39	MC	Pleasanton City Lake #1	10290102	Linn	LM066401	X	O	X	X	X
40	MC	Pleasanton City Lake #2	10290102	Linn	LM066501	X	O	X	X	X
41	MC	Pleasanton Reservoir	10290102	Linn	LM044201	X	X	X	X	X
42	MC	Prescott City Lake	10290103	Linn	LM066601	X	X	X	X	X
43	MC	Elm Creek Lake	10290104	Bourbon	LM044801	X	O	X	X	X
44	MC	Fort Scott City Lake	10290104	Bourbon	LM045001	X	O	X	X	X
45	MC	Frisco Lake	10290104	Crawford	LM068501	X	O	X	X	X
46	MC	Gunn Park East Lake	10290104	Bourbon	LM065401	X	X	X	X	X
47	MC	Gunn Park West Lake	10290104	Bourbon	LM065501	X	X	X	X	X
48	MO	Troy Fair Lake	10240005	Doniphan	LM073801	X	O	X	X	X

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#	Basin	Lake	HUC 8	County	LM	DS	GR	IW	IR	LW
49	MO	Merrit Lake	10240011	Leavenworth	LM020801	X	O	X	X	X
50	MO	Smith Lake	10240011	Leavenworth	LM020701	X	O	X	X	X
51	MO	Heritage Park Lake	10300101	Johnson	LM062401	X	O	X	X	X
52	NE	Jones Park Lake	11070201	Lyon	LM068701	X	X	X	X	X
53	NE	Hillsboro City Lake	11070202	Marion	LM020901	X	O	X	X	X
54	NE	Chase County SFL	11070203	Chase	LM010201	X	O	X	X	X
55	NE	Peter Pan Lake	11070203	Lyon	LM069801	X	X	X	X	X
56	NE	Circle Lake	11070204	Woodson	LM021101	X	X	X	X	X
57	NE	Leonard's Lake	11070204	Woodson	LM021301	X	X	X	X	X
58	NE	Neosho Falls City Lake	11070204	Woodson	LM021401	X	X	X	X	X
59	NE	New Strawn Park Lake	11070204	Coffey	LM073101	X	X	X	X	X
60	NE	Altamont City Main Lake (#1)	11070205	Labette	LM068001	X	O	X	X	X
61	NE	Altamont City Main Lake (#3)	11070205	Labette	LM068201	X	O	X	X	X
62	NE	Harmon W.A.	11070205	Labette	LM021501	O	X	O	O	O
63	NE	Parsons Lake	11070205	Neosho	LM041401	X	X	X	X	X
64	NE	Pittsburg College Lake	11070207	Crawford	LM073301	X	O	X	X	X
65	NE	Playter's Lake	11070207	Crawford	LM069001	X	O	X	X	X
66	VE	Otis Creek Lake (Eureka)	11070102	Greenwood	LM053901	X	X	X	X	X
67	VE	Severy City Lake	11070102	Greenwood	LM072101	X	O	X	X	X
68	VE	Edna City Lake	11070103	Labette	LM071701	X	O	X	X	X
69	VE	La Claire Lake	11070103	Montgomery	LM072901	X	X	X	X	X
70	VE	La Tanko (Cherryvale City Lake)	11070103	Montgomery	LM071601	X	O	X	X	X

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Table 2: Approval of the Addition and Removal of Non-101(a)(2) Use Designations for Classified Streams. New and revised designations are shown in bold and are underlined. “X” denotes assigned designated use. “O” denotes non-support of designated use.

#	Basin	Stream Name	HUC 8	Segment	DS	GR	IW	IR	LW
1	CI	Cimarron River	11040002	1	O	X	O	X	X
2	CI	Cimarron River	11040006	1	O	X	O	X	X
3	CI	Crooked Creek	11040007	1	O	X	X	X	X
4	CI	Stumpie Arroyo	11040007	1247	X	X	O	O	X
5	CI	Bear Creek	11040008	18	X	X	X	X	X
6	CI	Big Sandy Creek	11040008	6	O	X	O	X	X
7	CI	Big Sandy Creek	11040008	7	X	X	X	X	X
8	CI	Big Sandy Creek	11040008	9	X	X	X	X	X
9	CI	Cimarron River	11040008	1	O	X	O	X	X
10	CI	Cimarron River	11040008	5	O	X	O	X	X
11	CI	Cimarron River	11040008	11	O	X	O	X	X
12	CI	Day Creek	11040008	20	O	X	O	X	X
13	CI	Gyp Creek	11040008	25	O	X	O	X	X
14	CI	Indian Creek	11040008	14	O	O	O	X	X
15	CI	Kiger Creek	11040008	8	O	X	O	O	X
16	CI	Kiowa Creek	11040008	12	X	X	X	X	X
17	CI	Little Sandy Creek	11040008	652	O	X	O	X	X
18	CI	Snake Creek	11040008	21	O	X	O	X	X
19	CI	Stink Creek	11040008	17	O	X	O	O	X
20	CI	Twomile Creek	11040008	15	O	O	O	O	X
21	CI	Wiggins Creek	11040008	1173	X	X	X	X	X
22	CI	West Creek	11050001	24	O	X	O	O	X

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#	Basin	Stream Name	HUC 8	Segment	DS	GR	IW	IR	LW
23	KR	Antelope Creek	10250016	66	O	O	O	O	O
24	KR	Ash Creek	10250016	65	O	X	O	O	X
25	KR	Big Timber Creek	10250016	1301	X	X	X	X	X
26	KR	Buffalo Creek	10250016	59	O	O	O	O	X
27	KR	Burr Oak Creek	10250016	48	O	X	O	X	X
28	KR	Cedar Creek	10250016	63	O	O	O	O	O
29	KR	Crosby Creek	10250016	77	O	X	O	X	O
30	KR	Dry Creek	10250016	80	X	X	X	X	X
31	KR	Korb Creek	10250016	72	X	X	X	X	X
32	KR	Long Branch	10250016	68	O	O	O	O	X
33	KR	Norway Creek	10250016	73	O	X	O	O	O
34	KR	Otter Creek	10250016	79	O	X	O	X	X
35	KR	Spring Creek	10250016	71	O	X	O	O	O
36	KR	Walnut Creek	10250016	40	O	X	O	O	O
37	KR	Walnut Creek	10250016	46	X	X	X	X	X
38	KR	White Rock Creek	10250016	47	O	X	O	X	X
39	KR	White Rock Creek	10250016	49	O	X	O	X	X
40	KR	White Rock Creek	10250016	50	X	X	X	X	X
41	KR	White Rock Creek, North Branch	10250016	60	O	X	O	O	O
42	KR	Wolf Creek	10250016	67	O	X	O	O	O
43	KR	Buffalo Creek	10250017	29	O	X	O	X	X
44	KR	Buffalo Creek	10250017	37	X	X	X	X	X
45	KR	Buffalo Creek, East	10250017	68	O	X	O	X	X
46	KR	Buffalo Creek, Middle	10250017	9037	O	X	O	X	X
47	KR	Cheyenne Creek	10250017	55	O	X	O	X	X
48	KR	Coal Creek	10250017	47	O	X	O	X	X

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#	Basin	Stream Name	HUC 8	Segment	DS	GR	IW	IR	LW
49	KR	Cool Creek	10250017	50	O	X	O	X	X
50	KR	Dry Creek	10250017	1369	X	X	X	X	X
51	KR	East Creek	10250017	21	O	X	O	X	X
52	KR	Elk Creek	10250017	14	X	X	X	X	X
53	KR	Elk Creek	10250017	15	X	X	X	X	X
54	KR	Elk Creek, West Fork	10250017	16	O	O	O	X	X
55	KR	Elm Creek	10250017	39	X	X	X	X	X
56	KR	Elm Creek, East Branch	10250017	62	O	X	O	X	X
57	KR	Elm Creek West Branch	10250017	59	X	X	X	X	X
58	KR	Finney Creek	10250017	64	X	X	X	X	X
59	KR	Five Creek	10250017	413	O	X	O	X	X
60	KR	Fourmile Creek	10250017	67	X	X	X	X	X
61	KR	Hay Creek	10250017	49	O	X	O	X	X
62	KR	Huntress Creek	10250017	9354	X	X	X	X	X
63	KR	Lincoln Creek	10250017	65	X	X	X	X	X
64	KR	Marsh Creek	10250017	35	O	X	O	X	X
65	KR	Marsh Creek, East	10250017	42	O	O	O	X	X
66	KR	Marsh Creek, West	10250017	36	O	O	O	X	X
67	KR	Mud Creek	10250017	63	X	X	X	X	X
68	KR	Mulberry Creek	10250017	40	O	X	O	X	X
69	KR	Oak Creek	10250017	58	X	X	X	X	X
70	KR	Otter Creek	10250017	66	O	X	O	X	X
71	KR	Parsons Creek	10250017	12	X	X	X	X	X
72	KR	Peats Creek	10250017	10	O	X	O	X	X
73	KR	Riley Creek	10250017	24	O	X	O	X	X
74	KR	Salt Creek	10250017	19	X	X	X	X	X

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#	Basin	Stream Name	HUC 8	Segment	DS	GR	IW	IR	LW
75	KR	Salt Creek	10250017	22	X	X	X	X	X
76	KR	Salt Creek	10250017	23	X	X	X	X	X
77	KR	Salt Creek	10250017	30	O	X	O	X	X
78	KR	Salt Creek	10250017	34	X	X	X	X	X
79	KR	Salt Creek, West	10250017	25	O	X	O	X	X
80	KR	Spring Creek	10250017	53	O	O	O	X	X
81	KR	Spring Creek	10250017	1354	X	X	X	X	X
82	KR	Timber Creek	10250017	6	X	X	X	X	X
83	KR	Turkey Creek	10250017	51	O	X	O	O	O
84	KR	Upton Creek	10250017	52	O	X	O	X	X
85	KR	Whites Creek	10250017	54	O	X	O	X	X
86	KR	Wolf Creek	10250017	38	X	X	X	X	X
87	KR	Clarks Creek	10270101	8	X	X	X	X	X
88	KR	Clarks Creek	10270101	9	X	X	X	X	X
89	KR	Davis Creek	10270101	18	X	X	X	X	X
90	KR	Dry Creek	10270101	19	X	X	X	X	X
91	KR	Humboldt Creek	10270101	10	X	X	X	X	X
92	KR	Kitten Creek	10270101	14	X	X	X	X	X
93	KR	Little Arkansas Creek	10270101	13	O	O	O	X	X
94	KR	McDowell Creek	10270101	11	X	X	X	X	X
95	KR	Ralls Creek	10270101	21	X	X	X	X	X
96	KR	Sevenmile Creek	10270101	5	X	X	X	X	X
97	KR	Swede Creek	10270101	17	X	X	X	X	X
98	KR	Threemile Creek	10270101	15	O	O	O	X	X
99	KR	Adams Creek	10270102	53	X	X	X	X	X
100	KR	Antelope Creek	10270102	67	X	X	X	X	X

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#	Basin	Stream Name	HUC 8	Segment	DS	GR	IW	IR	LW
101	KR	Bartlett Creek	10270102	55	X	X	X	X	X
102	KR	Blackjack Creek	10270102	64	X	X	X	X	X
103	KR	Blacksmith Creek	10270102	102	X	X	X	X	X
104	KR	Bourbonais Creek	10270102	63	X	X	X	X	X
105	KR	Brush Creek	10270102	57	X	X	X	X	X
106	KR	Coal Creek	10270102	46	X	X	X	X	X
107	KR	Coryell Creek	10270102	94	O	O	O	O	X
108	KR	Cross Creek	10270102	12	X	X	X	X	X
109	KR	Darnells Creek	10270102	51	X	X	X	X	X
110	KR	Deep Creek	10270102	1229	X	X	X	X	X
111	KR	Dog Creek	10270102	78	X	X	X	X	X
112	KR	Doyle Creek	10270102	69	X	X	X	X	X
113	KR	Dry Creek	10270102	79	X	X	X	X	X
114	KR	Dutch Creek	10270102	92	O	O	O	X	X
115	KR	Elm Creek	10270102	103	O	O	O	X	X
116	KR	Elm Slough	10270102	58	O	X	O	X	X
117	KR	Emmons Creek	10270102	66	O	O	O	X	X
118	KR	French Creek	10270102	19	X	X	X	X	X
119	KR	Hendricks Creek	10270102	73	X	X	X	X	X
120	KR	Hise Creek	10270102	43	X	X	X	X	X
121	KR	Indian Creek	10270102	1365	X	X	X	X	X
122	KR	James Creek	10270102	87	X	X	X	X	X
123	KR	Jim Creek	10270102	52	X	X	X	X	X
124	KR	Johnson Creek	10270102	84	O	O	O	X	X
125	KR	Kuenzil Creek	10270102	82	X	X	X	X	X
126	KR	Little Cross Creek	10270102	61	X	X	X	X	X

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#	Basin	Stream Name	HUC 8	Segment	DS	GR	IW	IR	LW
127	KR	Little Muddy Creek	10270102	99	X	X	X	X	X
128	KR	Loire Creek	10270102	80	X	X	X	X	X
129	KR	Lost Creek	10270102	60	X	X	X	X	X
130	KR	Messhoss Creek	10270102	96	X	X	X	X	X
131	KR	Mission Creek, North Branch	10270102	83	X	X	X	X	X
132	KR	Mission Creek, South Branch	10270102	38	X	X	X	X	X
133	KR	Mud Creek	10270102	56	X	X	X	X	X
134	KR	Muddy Creek	10270102	2	X	X	X	X	X
135	KR	Muddy Creek, West Fork	10270102	93	X	X	X	X	X
136	KR	Mulberry Creek	10270102	77	X	X	X	X	X
137	KR	Nehring Creek	10270102	81	X	X	X	X	X
138	KR	Paw Paw Creek	10270102	75	X	X	X	X	X
139	KR	Pleasant Hill Run	10270102	23	X	X	X	X	X
140	KR	Post Creek	10270102	101	X	X	X	X	X
141	KR	Pretty Creek	10270102	74	X	X	X	X	X
142	KR	Riley Creek	10270102	1223	O	X	O	X	X
143	KR	Rock Creek	10270102	21	X	X	X	X	X
144	KR	Rock Creek, East Fork	10270102	22	X	X	X	X	X
145	KR	Salt Creek	10270102	88	X	X	X	X	X
146	KR	Sand Creek	10270102	65	O	X	O	X	X
147	KR	Snake Creek	10270102	95	X	X	X	X	X
148	KR	Snokomo Creek	10270102	85	X	X	X	X	X
149	KR	Spring Creek	10270102	48	X	X	X	X	X
150	KR	Spring Creek	10270102	54	X	X	X	X	X
151	KR	Spring Creek	10270102	76	O	X	O	O	X
152	KR	Spring Creek	10270102	105	X	X	X	X	X

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#	Basin	Stream Name	HUC 8	Segment	DS	GR	IW	IR	LW
153	KR	Turkey Creek	10270102	71	O	X	O	X	X
154	KR	Unnamed Stream	10270102	8	O	O	O	O	O
155	KR	Vassar Creek	10270102	100	X	X	X	X	X
156	KR	Vermillion Creek	10270102	15	X	X	X	X	X
157	KR	Walnut Creek	10270102	91	X	X	X	X	X
158	KR	Wells Creek	10270102	68	O	X	O	X	X
159	KR	Whetstone Creek	10270102	104	X	X	X	X	X
160	KR	Wilson Creek	10270102	50	O	X	X	X	X
161	KR	Wolf Creek	10270102	49	X	X	X	X	X
162	KR	Banner Creek	10270103	45	X	X	X	X	X
163	KR	Barnes Creek	10270103	39	X	X	X	X	X
164	KR	Bills Creek	10270103	47	X	X	X	X	X
165	KR	Burr Oak Creek	10270103	8	X	X	X	X	X
166	KR	Catamount Creek	10270103	49	O	X	O	X	X
167	KR	Cedar Creek	10270103	32	X	X	X	X	X
168	KR	Cedar Creek	10270103	37	X	X	X	X	X
169	KR	Cedar Creek, North	10270103	46	X	X	X	X	X
170	KR	Cedar Creek, South	10270103	9032	X	X	X	X	X
171	KR	Claywell Creek	10270103	56	O	X	O	X	X
172	KR	Clear Creek	10270103	19	X	X	X	X	X
173	KR	Coal Creek	10270103	50	O	X	O	X	X
174	KR	Elk Creek	10270103	29	X	X	X	X	X
175	KR	Elk Creek	10270103	30	X	X	X	X	X
176	KR	Grasshopper Creek	10270103	18	X	X	X	X	X
177	KR	Grasshopper Creek	10270103	20	X	X	X	X	X
178	KR	Gregg Creek	10270103	24	X	X	X	X	X

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#	Basin	Stream Name	HUC 8	Segment	DS	GR	IW	IR	LW
179	KR	Honey Creek	10270103	55	O	O	O	X	X
180	KR	Little Grasshopper Creek	10270103	16	X	X	X	X	X
181	KR	Little Slough Creek	10270103	805	X	X	X	X	X
182	KR	Little Wild Horse Creek	10270103	57	X	X	X	X	X
183	KR	Mosquito Creek	10270103	602	X	X	X	X	X
184	KR	Muddy Creek	10270103	25	X	X	X	X	X
185	KR	Muddy Creek	10270103	26	X	X	X	X	X
186	KR	Nebo Creek	10270103	48	X	X	X	X	X
187	KR	Negro Creek	10270103	43	O	X	O	X	X
188	KR	Otter Creek	10270103	41	O	X	O	X	X
189	KR	Plum Creek	10270103	36	X	X	X	X	X
190	KR	Rock Creek	10270103	34	X	X	X	X	X
191	KR	Rock Creek	10270103	53	X	X	X	X	X
192	KR	Slough Creek	10270103	7	X	X	X	X	X
193	KR	Slough Creek	10270103	9	X	X	X	X	X
194	KR	Spring Creek	10270103	42	X	X	X	X	X
195	KR	Squaw Creek	10270103	38	O	O	O	O	O
196	KR	Straight Creek	10270103	28	X	X	X	X	X
197	KR	Tick Creek	10270103	52	O	O	O	X	X
198	KR	Walnut Creek	10270103	51	X	X	X	X	X
199	KR	Wolfley Creek	10270103	27	X	X	X	X	X
200	KR	Baldwin Creek	10270104	69	X	X	X	X	X
201	KR	Brush Creek	10270104	49	O	X	O	X	X
202	KR	Brush Creek, West	10270104	46	O	O	O	X	X
203	KR	Burys Creek	10270104	32	X	X	X	X	X
204	KR	Buttermilk Creek	10270104	44	O	X	O	X	X

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#	Basin	Stream Name	HUC 8	Segment	DS	GR	IW	IR	LW
205	KR	Camp Creek	10270104	74	O	O	O	X	X
206	KR	Chicken Creek	10270104	79	O	X	O	X	X
207	KR	Clear Creek	10270104	383	O	X	O	X	X
208	KR	Coal Creek	10270104	80	O	X	X	X	X
209	KR	Cow Creek	10270104	58	O	X	O	X	X
210	KR	Crooked Creek	10270104	10	X	X	X	X	X
211	KR	Crooked Creek	10270104	12	X	X	X	X	X
212	KR	Dawson Creek	10270104	45	X	X	X	X	X
213	KR	Deer Creek	10270104	701	X	X	X	X	X
214	KR	Elk Creek	10270104	68	X	X	X	X	X
215	KR	Fall Creek	10270104	52	O	O	O	X	X
216	KR	Hays Creek	10270104	406	O	O	O	X	X
217	KR	Hog Creek	10270104	54	X	X	X	X	X
218	KR	Indian Creek	10270104	48	O	O	O	X	X
219	KR	Jarbalo Creek	10270104	51	O	O	O	X	X
220	KR	Kent Creek	10270104	73	X	X	X	X	X
221	KR	Little Cedar Creek	10270104	76	O	X	O	X	X
222	KR	Little Kaw Creek	10270104	59	X	X	X	X	X
223	KR	Little Mill Creek	10270104	78	O	X	X	X	X
224	KR	Little Sandy Creek	10270104	883	O	O	O	X	X
225	KR	Little Stranger Creek	10270104	881	X	X	X	X	X
226	KR	Little Stranger Creek	10270104	959	X	X	X	X	X
227	KR	Little Wakarusa Creek	10270104	71	X	X	X	X	X
228	KR	Lynn Creek	10270104	67	X	X	X	X	X
229	KR	Mission Creek, East	10270104	61	O	O	O	X	X
230	KR	Mission Creek, West	10270104	1164	O	O	O	X	X

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#	Basin	Stream Name	HUC 8	Segment	DS	GR	IW	IR	LW
231	KR	Mooney Creek	10270104	1011	X	X	X	X	X
232	KR	Mud Creek	10270104	20	X	X	X	X	X
233	KR	Ninemile Creek	10270104	15	X	X	X	X	X
234	KR	Ninemile Creek	10270104	17	X	X	X	X	X
235	KR	Oakley Creek	10270104	56	X	X	X	X	X
236	KR	Piper Creek	10270104	1154	O	O	O	X	X
237	KR	Plum Creek	10270104	50	X	X	X	X	X
238	KR	Scatter Creek	10270104	9013	O	O	O	X	X
239	KR	Sixmile Creek	10270104	65	X	X	X	X	X
240	KR	Spoon Creek	10270104	75	O	X	O	X	X
241	KR	Stone House Creek	10270104	57	X	X	X	X	X
242	KR	Stone House Creek, East	10270104	9057	X	X	X	X	X
243	KR	Stone House Creek, West	10270104	830	X	X	X	X	X
244	KR	Tonganoxie Creek	10270104	14	X	X	X	X	X
245	KR	Unnamed Stream	10270104	11	O	O	O	X	X
246	KR	Unnamed Stream	10270104	16	O	X	O	X	X
247	KR	Unnamed Stream	10270104	583	O	O	O	X	X
248	KR	Unnamed Stream	10270104	584	O	O	O	X	X
249	KR	Walnut Creek	10270104	13	X	X	X	X	X
250	KR	Washington Creek	10270104	36	X	X	X	X	X
251	KR	Yankee Tank Creek	10270104	70	X	X	X	X	X
252	KR	Ackerman Creek	10270205	49	X	X	X	X	X
253	KR	Big Blue River	10270205	2	X	X	X	X	X
254	KR	Bluff Creek	10270205	573	X	X	X	X	X
255	KR	Bucksnort Creek	10270205	566	X	X	X	X	X
256	KR	Carter Creek	10270205	59	X	X	X	X	X

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257	KR	De Shazer Creek	10270205	55	O	X	O	X	X
258	KR	Deadman Creek	10270205	60	X	X	X	X	X
259	KR	Deer Creek	10270205	36	X	X	X	X	X
260	KR	Elm Creek	10270205	46	X	X	X	X	X
261	KR	Elm Creek, North	10270205	41	X	X	X	X	X
262	KR	Fancy Creek	10270205	9029	X	X	X	X	X
263	KR	Fancy Creek, North Fork	10270205	61	X	X	X	X	X
264	KR	Fancy Creek, West	10270205	29	O	X	O	X	X
265	KR	Game Fork	10270205	54	X	X	X	X	X
266	KR	Horseshoe Creek	10270205	26	X	X	X	X	X
267	KR	Kearney Branch	10270205	58	O	O	O	O	O
268	KR	Little Timber Creek	10270205	48	X	X	X	X	X
269	KR	Mill Creek	10270205	31	X	X	X	X	X
270	KR	Mission Creek	10270205	22	X	X	X	X	X
271	KR	Otter Creek	10270205	67	O	X	O	X	X
272	KR	Otter Creek, North	10270205	62	X	X	X	X	X
273	KR	Phiel Creek	10270205	68	O	O	O	X	X
274	KR	Robidoux Creek	10270205	16	X	X	X	X	X
275	KR	School Branch	10270205	63	O	O	O	X	X
276	KR	Spring Creek	10270205	19	X	X	X	X	X
277	KR	Spring Creek	10270205	65	X	X	X	X	X
278	KR	Timber Creek	10270205	64	X	X	X	X	X
279	KR	Weyer Creek	10270205	50	O	O	O	X	X
280	KR	Ash Creek	10270207	36	X	X	X	X	X
281	KR	Beaver Creek	10270207	38	O	X	O	X	X
282	KR	Bowman Creek	10270207	21	O	O	O	X	X

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#	Basin	Stream Name	HUC 8	Segment	DS	GR	IW	IR	LW
283	KR	Camp Creek	10270207	35	X	X	X	X	X
284	KR	Camp Creek	10270207	44	X	X	X	X	X
285	KR	Cedar Creek	10270207	40	O	X	O	O	X
286	KR	Cherry Creek	10270207	25	X	X	X	X	X
287	KR	Coon Creek	10270207	23	X	X	X	X	X
288	KR	Fawn Creek	10270207	45	X	X	X	X	X
289	KR	Gray Branch	10270207	27	O	O	O	X	X
290	KR	Iowa Creek	10270207	34	X	X	X	X	X
291	KR	Joy Creek	10270207	13	O	O	O	X	X
292	KR	Lane Branch	10270207	39	O	X	O	X	X
293	KR	Mill Creek	10270207	14	X	X	X	X	X
294	KR	Mill Creek	10270207	16	X	X	X	X	X
295	KR	Mill Creek	10270207	18	X	X	X	X	X
296	KR	Mill Creek	10270207	20	X	X	X	X	X
297	KR	Mill Creek	10270207	22	X	X	X	X	X
298	KR	Mill Creek, South Fork	10270207	31	X	X	X	X	X
299	KR	Myer Creek	10270207	26	X	X	X	X	X
300	KR	Riddle Creek	10270207	17	O	X	O	X	X
301	KR	Rose Creek	10270207	12	O	X	O	X	X
302	KR	Salt Creek	10270207	19	X	X	X	X	X
303	KR	School Creek	10270207	49	X	X	X	X	X
304	KR	Silver Creek	10270207	28	O	O	O	O	O
305	KR	Spring Creek	10270207	15	X	X	X	X	X
306	KR	Spring Creek	10270207	30	O	O	O	X	X
307	KR	Walnut Creek	10270207	41	X	X	X	X	X
308	LA	Rattlesnake Creek	11030009	1	O	X	O	X	X

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#	Basin	Stream Name	HUC 8	Segment	DS	GR	IW	IR	LW
309	LA	Rattlesnake Creek	11030009	4	O	X	O	X	X
310	LA	Spring Creek	11030009	7	X	X	X	X	X
311	LA	Big Slough	11030010	9011	X	X	X	X	X
312	LA	Gar Creek	11030010	8	O	X	O	X	X
313	LA	Peace Creek	11030010	6	O	X	O	X	X
314	LA	Salt Creek	11030010	7	O	X	O	X	X
315	LA	Blood Creek	11030011	15	O	X	O	X	X
316	LA	Cow Creek	11030011	5	O	X	O	X	X
317	LA	Dry Creek	11030011	22	O	X	O	X	O
318	LA	Jarvis Creek	11030011	19	O	X	O	O	X
319	LA	Little Cheyenne Creek	11030011	7	X	X	X	X	X
320	LA	Little Cow Creek	11030011	2	X	X	X	X	X
321	LA	Lost Creek	11030011	17	X	X	X	X	X
322	LA	Owl Creek	11030011	18	X	X	X	X	X
323	LA	Plum Creek	11030011	4	X	X	X	X	X
324	LA	Salt Creek	11030011	21	O	X	X	O	O
325	LA	Spring Creek	11030011	20	X	X	X	X	X
326	LA	Beaver Creek	11030012	26	X	X	X	X	X
327	LA	Black Kettle Creek	11030012	368	X	X	X	X	X
328	LA	Chisholm Creek, Middle Fork	11030012	817	O	O	O	X	X
329	LA	Dry Creek	11030012	22	O	X	O	O	X
330	LA	Emma Creek	11030012	6	X	X	X	X	X
331	LA	Emma Creek, Middle	11030012	7	X	X	X	X	X
332	LA	Emma Creek, West	11030012	8	X	X	X	X	X
333	LA	Horse Creek	11030012	19	X	X	X	X	X
334	LA	Jester Creek	11030012	2	X	X	X	X	X

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#	Basin	Stream Name	HUC 8	Segment	DS	GR	IW	IR	LW
335	LA	Kisiwa Creek	11030012	15	X	X	X	X	X
336	LA	Lone Tree Creek	11030012	20	O	X	O	X	X
337	LA	Running Turkey Creek	11030012	25	X	X	X	X	X
338	LA	Salt Creek	11030012	21	O	O	O	O	O
339	LA	Sand Creek	11030012	4	X	X	X	X	X
340	LA	Sand Creek	11030012	23	O	X	O	X	X
341	LA	Turkey Creek	11030012	11	O	X	O	X	X
342	LA	Turkey Creek	11030012	12	O	O	O	X	X
343	LA	Big Slough	11030013	11	X	X	X	X	X
344	LA	Bitter Creek	11030013	28	X	X	X	X	X
345	LA	Chisholm Creek	11030013	8	O	X	X	X	X
346	LA	Dog Creek	11030013	531	X	X	X	X	X
347	LA	Dry Creek	11030013	15	O	X	O	X	X
348	LA	Dry Creek	11030013	16	O	X	O	X	X
349	LA	Gypsum Creek	11030013	5	X	X	X	X	X
350	LA	Hargis Creek	11030013	24	X	X	X	X	X
351	LA	Lost Creek	11030013	23	O	X	O	X	X
352	LA	Oak Creek	11030013	26	O	X	O	X	X
353	LA	Salt Creek	11030013	22	O	X	O	X	X
354	LA	Slate Creek	11030013	17	X	X	X	X	X
355	LA	Spring Creek	11030013	19	X	X	X	X	X
356	LA	Spring Creek	11030013	21	X	X	X	X	X
357	LA	Spring Creek	11030013	34	O	X	O	X	X
358	LA	Spring Creek	11030013	37	O	X	O	X	X
359	LA	W V C Floodway	11030013	456	X	X	X	X	X
360	LA	W V C Floodway	11030013	9001	X	X	X	X	X

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#	Basin	Stream Name	HUC 8	Segment	DS	GR	IW	IR	LW
361	LA	W V C Floodway	11030013	9011	X	X	X	X	X
362	LA	Winser Creek	11030013	32	O	X	O	X	X
363	LA	Crow Creek	11030014	11	X	X	X	X	X
364	LA	Dooleyville Creek	11030014	8	O	X	O	X	X
365	LA	Goose Creek	11030014	10	O	X	O	X	X
366	LA	Red Rock Creek	11030014	12	X	X	X	X	X
367	LA	Rock Creek	11030014	13	X	X	X	X	X
368	LA	Silver Creek	11030014	7	X	X	X	X	X
369	LA	Spring Creek	11030014	14	X	X	X	X	X
370	LA	Unnamed Stream	11030014	289	O	X	O	X	X
371	LA	Unnamed Stream	11030014	411	O	X	O	X	X
372	LA	Unnamed Stream	11030014	999	X	X	X	X	X
373	LA	Wolf Creek	11030014	9	X	X	X	X	X
374	LA	Coon Creek	11030015	9	O	O	O	O	O
375	LA	Coon Creek	11030015	17	O	O	O	X	X
376	LA	Hunter Creek	11030015	14	X	X	X	X	X
377	LA	Mead Creek	11030015	10	X	X	X	X	X
378	LA	Natrona Creek	11030015	307	X	X	X	X	X
379	LA	Negro Creek	11030015	13	X	X	X	X	X
380	LA	Nester Creek	11030015	15	X	X	X	X	X
381	LA	Painter Creek	11030015	7	X	X	X	X	X
382	LA	Pat Creek	11030015	11	X	X	X	X	X
383	LA	Sand Creek	11030015	18	O	X	O	X	X
384	LA	Spring Creek	11030015	8	X	X	X	X	X
385	LA	Unnamed Stream	11030015	249	X	X	X	X	X
386	LA	Unnamed Stream	11030015	253	O	X	O	X	X

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#	Basin	Stream Name	HUC 8	Segment	DS	GR	IW	IR	LW
387	LA	Unnamed Stream	11030015	270	O	O	O	X	X
388	LA	Unnamed Stream	11030015	271	O	O	O	X	X
389	LA	Unnamed Stream	11030015	518	O	O	O	X	X
390	LA	Unnamed Stream	11030015	520	X	X	X	X	X
391	LA	Unnamed Stream	11030015	579	X	X	X	X	X
392	LA	Clearwater Creek	11030016	4	X	X	X	X	X
393	LA	Clearwater Creek	11030016	7	X	X	X	X	X
394	LA	Polecat Creek	11030016	59	X	X	X	X	X
395	LA	Sand Creek	11030016	14	X	X	X	X	X
396	LA	Spring Creek	11030016	2	X	X	X	X	X
397	LA	Spring Creek	11030016	15	O	O	O	X	X
398	LA	Burlington Creek	11060001	28	O	X	O	X	X
399	LA	Cedar Creek	11060001	32	X	X	X	X	X
400	LA	Crabb Creek	11060001	29	X	X	X	X	X
401	LA	Gardners Branch	11060001	39	X	X	X	X	X
402	LA	Goose Creek	11060001	34	O	O	O	X	X
403	LA	Little Beaver Creek	11060001	11	X	X	X	X	X
404	LA	Myers Creek	11060001	24	O	O	O	O	O
405	LA	Otter Creek	11060001	20	X	X	X	X	X
406	LA	Plum Creek	11060001	33	X	X	X	X	X
407	LA	Silver Creek	11060001	17	X	X	X	X	X
408	LA	Spring Creek	11060001	21	X	X	X	X	X
409	LA	Wagoner Creek	11060001	36	X	X	X	X	X
410	LA	Arkansas River, Salt Fork	11060002	4	O	X	O	X	X
411	LA	Arkansas River, Salt Fork	11060002	6	O	X	O	X	X
412	LA	Arkansas River, Salt Fork	11060002	8	O	X	O	X	X

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#	Basin	Stream Name	HUC 8	Segment	DS	GR	IW	IR	LW
413	LA	Arkansas River, Salt Fork	11060002	10	O	X	O	X	X
414	LA	Arkansas River, Salt Fork	11060002	15	O	X	O	X	X
415	LA	Ash Creek	11060002	20	O	O	O	O	X
416	LA	Big Sandy Creek	11060002	5	O	X	O	X	X
417	LA	Cave Creek	11060002	28	O	X	O	X	X
418	LA	Deadman Creek	11060002	22	O	O	O	O	X
419	LA	Dog Creek	11060002	29	O	X	O	X	X
420	LA	Hackberry Creek	11060002	23	O	X	O	X	X
421	LA	Indian Creek	11060002	9	O	X	O	X	X
422	LA	Nescatunga Creek, East Branch	11060002	27	X	X	X	X	X
423	LA	Red Creek	11060002	16	O	X	O	X	X
424	LA	Spring Creek	11060002	24	X	X	X	X	X
425	LA	Unnamed Stream	11060002	503	O	O	O	X	X
426	LA	Wildcat Creek	11060002	12	X	X	X	X	X
427	LA	Yellowstone Creek	11060002	17	O	X	O	X	X
428	LA	Amber Creek	11060003	12	X	X	X	X	X
429	LA	Antelope Creek	11060003	22	X	X	X	X	X
430	LA	Bear Creek	11060003	13	O	X	O	X	X
431	LA	Cedar Creek	11060003	20	O	X	O	X	O
432	LA	Driftwood Creek	11060003	905	X	X	X	X	X
433	LA	Dry Creek	11060003	21	O	O	O	O	X
434	LA	Little Mule Creek	11060003	9	O	X	O	X	X
435	LA	Medicine Lodge River, East Branch	11060003	24	O	O	O	O	X
436	LA	Mulberry Creek	11060003	14	X	X	X	X	X
437	LA	Otter Creek	11060003	25	O	O	O	O	X

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#	Basin	Stream Name	HUC 8	Segment	DS	GR	IW	IR	LW
438	LA	Puckett Creek	11060003	15	O	X	O	O	X
439	LA	Sand Creek	11060003	17	O	O	O	O	O
440	LA	Soldier Creek	11060003	27	X	X	X	X	X
441	LA	Turkey Creek	11060003	7	X	X	X	X	X
442	LA	Unnamed Stream	11060003	370	O	O	O	X	X
443	LA	Unnamed Stream	11060003	415	O	O	O	X	X
444	LA	Unnamed Stream	11060003	452	O	X	O	X	X
445	LA	Unnamed Stream	11060003	559	X	X	X	X	X
446	LA	Wilson Slough	11060003	23	O	X	O	X	X
447	LA	Cooper Creek	11060004	71	X	X	X	X	X
448	LA	Crooked Creek	11060004	24	X	X	X	X	X
449	LA	Little Sandy Creek	11060004	39	X	X	X	X	X
450	LA	Little Sandy Creek, East Branch	11060004	65	X	X	X	X	X
451	LA	Little Sandy Creek, West Branch	11060004	9039	X	X	X	X	X
452	LA	Rush Creek	11060004	69	O	X	O	X	X
453	LA	Salty Creek	11060004	40	X	X	X	X	X
454	LA	Sandy Creek	11060004	37	X	X	X	X	X
455	LA	Sandy Creek, West	11060004	67	X	X	X	X	X
456	LA	Allen Creek	11060005	40	X	X	X	X	X
457	LA	Baehr Creek	11060005	22	X	X	X	X	X
458	LA	Big Spring Creek	11060005	34	X	X	X	X	X
459	LA	Bitter Creek	11060005	4	X	X	X	X	X
460	LA	Chicken Creek	10060005	36	O	O	O	O	X
461	LA	Dry Creek	11060005	17	O	O	O	O	X
462	LA	Duck Creek	11060005	32	X	X	X	X	X
463	LA	Fall Creek	11060005	14	X	X	X	X	X

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#	Basin	Stream Name	HUC 8	Segment	DS	GR	IW	IR	LW
464	LA	Kemp Creek	11060005	49	X	X	X	X	X
465	LA	Meridian Creek	11060005	20	X	X	X	X	X
466	LA	Prairie Creek	11060005	512	X	X	X	X	X
467	LA	Prairie Creek, East	11060005	516	X	X	X	X	X
468	LA	Prairie Creek, West	11060005	527	X	X	X	X	X
469	LA	Red Creek	11060005	43	X	X	X	X	X
470	LA	Rock Creek	11060005	23	X	X	X	X	X
471	LA	Rose Bud Creek	11060005	44	X	X	X	X	X
472	LA	Rush Creek	11060005	45	X	X	X	X	X
473	LA	Sand Creek	11060005	11	X	X	X	X	X
474	LA	Sand Creek, East	11060005	12	X	X	X	X	X
475	LA	Sandy Creek	11060005	30	X	X	X	X	X
476	LA	Shoo Fly Creek, East	11060005	19	X	X	X	X	X
477	LA	Silver Creek	11060005	29	X	X	X	X	X
478	LA	Skunk Creek	11060005	39	O	O	O	O	X
479	LA	Wild Horse Creek	11060005	41	X	X	X	X	X
480	LA	Wildcat Creek	11060005	24	X	X	X	X	X
481	MC	Appanoose Creek	10290101	16	X	X	X	X	X
482	MC	Appanoose Creek, East	10290101	89	X	X	X	X	X
483	MC	Batch Creek	10290101	86	X	X	X	X	X
484	MC	Blue Creek	10290101	81	O	X	O	X	X
485	MC	Bradshaw Creek	10290101	75	O	O	O	X	X
486	MC	Cedar Creek	10290101	66	X	X	X	X	X
487	MC	Cherry Creek	10290101	74	O	O	O	X	X
488	MC	Chicken Creek	10290101	70	X	X	X	X	X
489	MC	Chicken Creek	10290101	93	X	X	X	X	X

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#	Basin	Stream Name	HUC 8	Segment	DS	GR	IW	IR	LW
490	MC	Coal Creek	10290101	48	X	X	X	X	X
491	MC	Dry Creek	10290101	57	O	X	O	X	X
492	MC	Dry Creek	10290101	95	X	X	X	X	X
493	MC	Duck Creek	10290101	41	X	X	X	X	X
494	MC	Eightmile Creek	10290101	13	X	X	X	X	X
495	MC	Eightmile Creek, West Fork	10290101	88	X	X	X	X	X
496	MC	Frog Creek	10290101	42	X	X	X	X	X
497	MC	Hard Fish Creek	10290101	47	X	X	X	X	X
498	MC	Hickory Creek	10290101	8	X	X	X	X	X
499	MC	Hill Creek	10290101	71	X	X	X	X	X
500	MC	Iantha Creek	10290101	62	X	X	X	X	X
501	MC	Jersey Creek	10290101	76	O	O	O	O	O
502	MC	Kenoma Creek	10290101	64	O	X	O	X	X
503	MC	Locust Creek	10290101	69	X	X	X	X	X
504	MC	Long Creek	10290101	1531	O	X	X	X	X
505	MC	Middle Creek	10290101	50	X	X	X	X	X
506	MC	Mill Creek	10290101	1589	O	O	O	O	O
507	MC	Mosquito Creek	10290101	52	X	X	X	X	X
508	MC	Mud Creek	10290101	49	O	X	O	X	X
509	MC	Mud Creek	10290101	78	X	X	X	X	X
510	MC	Mud Creek	10290101	91	X	X	X	X	X
511	MC	Mute Creek	10290101	92	O	O	O	X	X
512	MC	Ottawa Creek	10290101	9011	X	X	X	X	X
513	MC	Plum Creek	10290101	2	X	X	X	X	X
514	MC	Rock Creek	10290101	43	X	X	X	X	X
515	MC	Rock Creek	10290101	97	X	X	X	X	X

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#	Basin	Stream Name	HUC 8	Segment	DS	GR	IW	IR	LW
516	MC	Sac Branch	10290101	54	O	X	O	X	X
517	MC	Sac Branch, North Fork	10290101	9054	O	X	O	X	X
518	MC	Sac Creek	10290101	60	X	X	X	X	X
519	MC	Salt Creek	10290101	29	X	X	X	X	X
520	MC	Sand Creek	10290101	82	O	O	O	X	X
521	MC	Smith Creek	10290101	77	O	O	O	X	X
522	MC	Soldier Creek	10290101	1083	X	X	X	X	X
523	MC	Spring Creek	10290101	84	X	X	X	X	X
524	MC	Switzler Creek	10290101	80	X	X	X	X	X
525	MC	Tauy Creek, West Fork	10290101	9911	X	X	X	X	X
526	MC	Tequa Creek	10290101	44	O	X	O	X	X
527	MC	Tequa Creek, South Branch	10290101	45	O	O	O	O	X
528	MC	Thomas Creek	10290101	72	O	O	O	X	X
529	MC	Turkey Creek	10290101	4	X	X	X	X	X
530	MC	Turkey Creek	10290101	6	X	X	X	X	X
531	MC	Unnamed Stream	10290101	5	X	X	X	X	X
532	MC	Walnut Creek	10290101	90	X	X	X	X	X
533	MC	Willow Creek	10290101	94	X	X	X	X	X
534	MC	Wilson Creek	10290101	83	X	X	X	X	X
535	MC	Wolf Creek	10290101	96	O	X	X	O	X
536	MC	Buck Creek	10290102	44	X	X	X	X	X
537	MC	Bull Creek	10290102	26	X	X	X	X	X
538	MC	Davis Creek	10290102	38	O	O	O	X	X
539	MC	Dorsey Creek	10290102	22	X	X	X	X	X
540	MC	Elm Branch	10290102	48	X	X	X	X	X
541	MC	Elm Branch	10290102	53	X	X	X	X	X

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#	Basin	Stream Name	HUC 8	Segment	DS	GR	IW	IR	LW
542	MC	Elm Creek	10290102	40	X	X	X	X	X
543	MC	Hushpuckney Creek	10290102	37	O	O	O	X	X
544	MC	Jake Branch	10290102	54	O	O	O	X	X
545	MC	Jordan Branch	10290102	36	X	X	X	X	X
546	MC	Little Sugar Creek	10290102	33	X	X	X	X	X
547	MC	Little Sugar Creek, North Fork	10290102	43	O	O	O	O	O
548	MC	Martin Creek	10290102	99	O	O	O	X	X
549	MC	Middle Creek	10290102	13	X	X	X	X	X
550	MC	Middle Creek	10290102	30	X	X	X	X	X
551	MC	Mine Creek	10290102	1244	X	X	X	X	X
552	MC	Mound Creek	10290102	35	X	X	X	X	X
553	MC	Richland Creek	10290102	41	O	X	O	X	X
554	MC	Rock Creek	10290102	27	O	O	O	X	X
555	MC	Smith Branch	10290102	47	O	X	O	X	X
556	MC	Sugar Creek	10290102	42	O	O	O	X	X
557	MC	Turkey Creek	10290102	45	O	X	O	X	X
558	MC	Unnamed Stream	10290102	754	X	O	X	X	X
559	MC	Walnut Creek	10290102	14	X	X	X	X	X
560	MC	Walnut Creek	10290102	34	O	O	O	X	X
561	MC	Walnut Creek	10290102	52	X	X	X	X	X
562	MC	Wea Creek, North	10290102	21	X	X	X	X	X
563	MC	Wea Creek, South	10290102	18	X	X	X	X	X
564	MC	Wea Creek, South	10290102	19	X	X	X	X	X
565	MC	Wea Creek, South	10290102	20	X	X	X	X	X
566	MC	Clever Creek	10290103	7	X	X	X	X	X
567	MC	Elk Creek	10290103	11	X	X	X	X	X

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#	Basin	Stream Name	HUC 8	Segment	DS	GR	IW	IR	LW
568	MC	Fish Creek	10290103	8	X	X	X	X	X
569	MC	Indian Creek	10290103	12	O	X	O	X	X
570	MC	Irish Creek	10290103	202	O	O	O	X	X
571	MC	Laberdeie Creek, East	10290103	13	O	X	O	X	X
572	MC	Limestone Creek	10290103	5	X	X	X	X	X
573	MC	Little Osage River, North Fork	10290103	220	X	X	X	X	X
574	MC	Little Osage River, South Fork	10290103	249	O	O	O	X	X
575	MC	Lost Creek	10290103	10	O	O	O	X	X
576	MC	Owl Creek	10290103	9	O	O	O	X	X
577	MC	Reagan Branch	10290103	6	O	X	O	X	X
578	MC	Bone Creek	10290104	9019	X	X	X	X	X
579	MC	Buck Run	10290104	46	X	X	X	X	X
580	MC	Bunion Creek	10290104	39	X	X	X	X	X
581	MC	Cedar Creek	10290104	41	X	X	X	X	X
582	MC	Cox Creek	10290104	324	O	X	O	X	X
583	MC	Drywood Creek, Moores Branch	10290104	17	X	X	X	X	X
584	MC	Drywood Creek, West Fork	10290104	19	X	X	X	X	X
585	MC	Drywood Creek, West Fork	10290104	323	X	X	X	X	X
586	MC	Elm Creek	10290104	15	X	X	X	X	X
587	MC	Hinton Creek	10290104	38	X	X	X	X	X
588	MC	Lath Branch	10290104	42	X	X	X	X	X
589	MC	Little Mill Creek	10290104	34	O	O	O	X	X
590	MC	Mill Creek	10290104	6	X	X	X	X	X
591	MC	Paint Creek	10290104	13	X	X	X	X	X
592	MC	Paint Creek	10290104	14	X	X	X	X	X
593	MC	Pawnee Creek	10290104	313	X	X	X	X	X

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#	Basin	Stream Name	HUC 8	Segment	DS	GR	IW	IR	LW
594	MC	Robinson Branch	10290104	40	O	O	O	X	X
595	MC	Shiloh Creek	10290104	36	O	O	O	X	X
596	MC	Tennyson Creek	10290104	31	X	X	X	X	X
597	MC	Turkey Creek	10290104	33	X	X	X	X	X
598	MC	Walnut Creek	10290104	32	O	O	O	O	X
599	MC	Walnut Creek	10290104	47	X	X	X	X	X
600	MC	Wolfpen Creek	10290104	37	O	O	O	X	X
601	MC	Wolverine Creek	10290104	35	O	X	X	X	X
602	MC	Harless Creek	10290108	67	O	O	O	O	X
603	MO	Cedar Creek	10240005	51	X	X	X	X	X
604	MO	Cold Ryan Branch	10240005	70	X	X	X	X	X
605	MO	Coon Creek	10240005	71	X	X	X	X	X
606	MO	Halling Creek	10240005	68	O	X	O	X	X
607	MO	Mill Creek	10240005	52	X	X	X	X	X
608	MO	Mosquito Creek	10240005	73	X	X	X	X	X
609	MO	Rittenhouse Branch	10240005	69	X	X	X	X	X
610	MO	Spring Creek	10240005	65	X	X	X	X	X
611	MO	Striker Branch	10240005	72	X	X	X	X	X
612	MO	Unnamed Stream	10240005	55	O	O	O	X	X
613	MO	Unnamed Stream	10240005	240	X	X	X	X	X
614	MO	Wolf River, North Fork	10240005	66	O	O	O	X	X
615	MO	Clear Creek	10240007	132	X	X	X	X	X
616	MO	Deer Creek	10240007	18	X	X	X	X	X
617	MO	Harris Creek	10240007	166	X	X	X	X	X
618	MO	Illinois Creek	10240007	30	X	X	X	X	X
619	MO	Rock Creek	10240007	20	X	X	X	X	X

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#	Basin	Stream Name	HUC 8	Segment	DS	GR	IW	IR	LW
620	MO	Tennessee Creek	10240007	29	X	X	X	X	X
621	MO	Turkey Creek	10240007	4	X	X	X	X	X
622	MO	Turkey Creek	10240007	5	X	X	X	X	X
623	MO	Wildcat Creek	10240007	23	X	X	X	X	X
624	MO	Noharts Creek	10270008	42	X	X	X	X	X
625	MO	Pedee Creek	10240008	41	X	X	X	X	X
626	MO	Pony Creek	10240008	38	X	X	X	X	X
627	MO	Roys Creek	10240008	40	X	X	X	X	X
628	MO	Terrapin Creek	10240008	308	X	X	X	X	X
629	MO	Walnut Creek	10240008	39	X	X	X	X	X
630	MO	Brush Creek	10240011	26	X	X	X	X	X
631	MO	Conner Creek	10240011	6368	X	X	X	X	X
632	MO	Corral Creek	10240011	175	O	O	O	O	O
633	MO	Deer Creek	10240011	32	X	X	X	X	X
634	MO	Fairfax Drain Ditch	10240011	9098	O	O	O	O	O
635	MO	Fivemile Creek	10240011	35	X	X	X	X	X
636	MO	Independence Creek, North Branch	10240011	29	X	X	X	X	X
637	MO	Jersey Creek	10240011	38	O	O	O	O	O
638	MO	Jordan Creek	10240011	30	X	X	X	X	X
639	MO	Nine Mile Creek	10240011	161	X	X	X	X	X
640	MO	Owl Creek	10240011	33	X	X	X	X	X
641	MO	Peters Creek	10240011	27	X	X	X	X	X
642	MO	Quarry Creek	10240011	176	X	X	X	X	X
643	MO	Rock Creek	10240011	21	X	X	X	X	X
644	MO	Salt Creek	10240011	34	X	X	X	X	X

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#	Basin	Stream Name	HUC 8	Segment	DS	GR	IW	IR	LW
645	MO	Seven Mile Creek	10240011	157	X	X	X	X	X
646	MO	Smith Creek	10240011	28	O	X	O	O	X
647	MO	Threemile Creek	10240011	36	X	X	X	X	X
648	MO	Walnut Creek	10240011	23	X	X	X	X	X
649	MO	Walnut Creek	10240011	25	X	X	X	X	X
650	MO	Whiskey Creek	10240011	235	X	X	X	X	X
651	MO	White Clay Creek	10240011	31	X	X	X	X	X
652	MO	White Clay Creek	10240011	9031	O	O	O	O	O
653	MO	Rock Creek	10300101	881	X	X	X	X	X

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Table 3: Approval of Classified Stream Segments Designated as Special Aquatic Life Use. New and revised designations are shown in bold and are underlined.

#	Basin	Stream Name	HUC 8	Segment	AL	Endangered or Threatened Species
1	CI	Big Sandy Creek	11040008	6	S	Arkansas Darter
2	CI	Big Sandy Creek	11040008	7	S	Arkansas Darter
3	CI	Big Sandy Creek	11040008	9	S	Arkansas Darter
4	CI	Gyp Creek	11040008	25	S	Arkansas Darter
5	CI	Indian Creek	11040008	14	S	Arkansas Darter
6	KR	Davis Creek	10270101	18	S	Topeka Shiner
7	KR	Dry Creek	10270101	19	S	Topeka Shiner
8	KR	Little Arkansas Creek	10270101	13	S	Topeka Shiner
9	KR	Sevenmile Creek	10270101	5	S	Topeka Shiner
10	KR	Swede Creek	10270101	17	S	Topeka Shiner
11	KR	Dry Creek	10270102	79	S	Topeka Shiner
12	KR	Hendricks Creek	10270102	73	S	Topeka Shiner
13	KR	Kuenzil Creek	10270102	82	S	Topeka Shiner
14	KR	Loire Creek	10270102	80	S	Did not say
15	KR	Mill Creek, West Branch	10270102	28	S	Topeka Shiner
16	KR	Mill Creek, West Branch	10270102	29	S	Blackside darter, Topeka Shiner
17	KR	Mission Creek	10270102	34	S	Topeka Shiner
18	KR	Mission Creek	10270102	36	S	Topeka Shiner
19	KR	Mission Creek	10270102	37	S	Topeka Shiner
20	KR	Mulberry Creek	10270102	77	S	Topeka Shiner
21	KR	Nehring Creek	10270102	81	S	Topeka Shiner
22	KR	Paw Paw Creek	10270102	75	S	Topeka Shiner
23	KR	Pretty Creek	10270102	74	S	Topeka Shiner

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#	Basin	Stream Name	HUC 8	Segment	AL	Endangered or Threatened Species
24	KR	Snokomo Creek	10270102	85	S	Topeka Shiner
25	KR	Spring Creek	10270102	76	S	Topeka Shiner
26	KR	Elm Creek, North	10270205	41	S	Topeka Shiner
27	LA	Big Slough	11030013	11	S	Least Tern
28	LA	W V C Floodway	11030013	456	S	Bald Eagle
29	LA	Goose Creek	11030014	10	S	Arkansas Darter
30	LA	Ninnescah River, North Fork	11030014	1	S	Arkansas Darter
31	LA	Wolf Creek	11030014	9	S	Arkansas Darter
32	LA	Negro Creek	11030015	13	S	Arkansas Darter
33	LA	Spring Creek	11030015	8	S	Arkansas Darter
34	LA	Arkansas River, Salt Fork	11060002	4	S	Arkansas Darter
35	LA	Arkansas River, Salt Fork	11060002	6	S	Arkansas Darter
36	LA	Arkansas River, Salt Fork	11060002	8	S	Arkansas Darter
37	LA	Arkansas River, Salt Fork	11060002	10	S	Arkansas Darter
38	LA	Arkansas River, Salt Fork	11060002	13	S	Arkansas Darter
39	LA	Arkansas River, Salt Fork	11060002	15	S	Arkansas Darter
40	LA	Indian Creek	11060002	9	S	Arkansas Darter
41	LA	Nescatunga Creek, East Branch	11060002	27	S	Arkansas Darter
42	LA	Red Creek	11060002	16	S	Arkansas Darter
43	LA	Spring Creek	11060002	24	S	Arkansas Darter
44	LA	Antelope Creek	11060003	22	S	Arkansas Darter
45	LA	Sand Creek	11060003	17	S	Arkansas Darter
46	LA	Little Sandy Creek	11060004	39	S	Strecker's Chorus Frog
47	LA	Sandy Creek	11060004	37	S	Strecker's Chorus Frog
48	LA	Bluff Creek	11060005	15	S	Checkered Garter Snake, Strecker's Chorus Frog

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#	Basin	Stream Name	HUC 8	Segment	AL	Endangered or Threatened Species
49	LA	Wild Horse Creek	11060005	41	S	Arkansas Darter
50	MC	Hickory Creek	10290101	8	S	Hornyhead Chub
51	MC	Wilson Creek	10290101	83	S	Mucket
52	MC	Big Sugar Creek	10290102	32	S	Flat Floater Mussel
53	MC	Mill Creek	10290104	6	S	Hornyhead Chub
54	MC	Pawnee Creek	10290104	313	S	Hornyhead Chub
55	MO	Wolf River	10240005	53	S	Western Silvery Minnow
56	MO	Wolf River	10240005	54	S	Western Silvery Minnow
57	MO	Rock Creek	10240011	21	S	Western Silvery Minnow

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Table 4: Approval of Restricted Aquatic Life Use for Classified Streams. New and revised designations are shown in bold and are underlined.

#	Basin	Stream Name	HUC 8	Segment	Previous CR	CR
1	MO	Fairfax Drainage Ditch	10240011	9098	E	R
2	MO	Jersey Creek	10240011	38	E	R

Table 5: Approval of Classified Stream Segments Designated as Expected Aquatic Life Use. New and revised designations are shown in bold and are underlined.

#	Basin	Stream Name	HUC 8	Segment	AL
1	CI	Stumpie Arroyo	11040007	1247	E
2	KR	Republican River	10250016	1	E
3	KR	Republican River	10250016	2	E
4	KR	Republican River	10250017	1	E
5	KR	Republican River	10250017	7	E
6	KR	Republican River	10250017	8	E
7	KR	Republican River	10250017	9	E
8	KR	Republican River	10250017	11	E
9	KR	Republican River	10250017	13	E
10	KR	Republican River	10250017	17	E
11	KR	Republican River	10250017	18	E
12	KR	Republican River	10250017	26	E
13	KR	Republican River	10250017	28	E
14	KR	Little Turkey Creek	10270104	62	E
15	KR	Bluff Creek	10270205	573	E
16	KR	Bucksnort Creek	10270205	566	E
17	KR	Spring Creek	10270205	65	E
18	LA	Arkansas River	11030010	3	E
19	LA	Arkansas River	11030010	4	E
20	LA	Arkansas River	11030010	5	E
21	LA	Little Cheyenne Creek	11030011	7	E
22	LA	Unnamed Stream	11030015	579	E
23	LA	Clearwater Creek	11030016	4	E
24	LA	Grouse Creek	11060001	15	E
25	LA	Grouse Creek	11060001	16	E

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#	Basin	Stream Name	HUC 8	Segment	AL
26	LA	Little Beaver Creek	11060001	11	<u>E</u>
27	MC	Long Creek	10290101	1531	<u>E</u>
28	MC	Marais Des Cygnes River	10290101	17	<u>E</u>
29	MC	Marais Des Cygnes River	10290101	30	<u>E</u>
30	MC	Ottawa Creek	10290101	9011	<u>E</u>
31	MC	Tauy Creek	10290101	11	<u>E</u>
32	MC	Elm Creek	10290102	40	<u>E</u>
33	MC	Middle Creek	10290102	30	<u>E</u>
34	MC	Richland Creek	10290102	41	<u>E</u>
35	MC	Little Osage River	10290103	3	<u>E</u>
36	MC	Little Osage River, Middle Fork	10290103	36	<u>E</u>
37	MO	Salt Creek	10240011	34	<u>E</u>

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Table 6: Approval of New Food Procurement Uses for Classified Streams. New and revised designations are shown in bold and are underlined. “X” denotes assigned designated use.

#	Basin	Stream Name	HUC 8	Segment	FP
1	CI	Bear Creek	11040008	18	X
2	CI	Kiowa Creek	11040008	12	X
3	CI	Little Sandy Creek	11040008	652	X
4	CI	Snake Creek	11040008	21	X
5	CI	Stink Creek	11040008	17	X
6	CI	Buffalo Creek	10250016	59	X
7	KR	Crosby Creek	10250016	77	X
8	KR	Korb Creek	10250016	72	X
9	KR	Wolf Creek	10250016	67	X
10	KR	Five Creek	10250017	413	X
11	KR	Fourmile Creek	10250017	67	X
12	KR	Huntress Creek	10250017	9354	X
13	KR	Mud Creek	10250017	63	X
14	KR	Parsons Creek	10250017	12	X
15	KR	Peats Creek	10250017	10	X
16	KR	Timber Creek	10250017	6	X
17	KR	Upton Creek	10250017	52	X
18	KR	Kitten Creek	10270101	14	X
19	KR	Little Arkansas Creek	10270101	13	X
20	KR	Ralls Creek	10270101	21	X
21	KR	Sevenmile Creek	10270101	5	X
22	KR	Brush Creek	10270102	57	X
23	KR	Coryell Creek	10270102	94	X
24	KR	Darnells Creek	10270102	51	X
25	KR	Deep Creek	10270102	1229	X
26	KR	Dutch Creek	10270102	92	X
27	KR	French Creek	10270102	19	X
28	KR	Jim Creek	10270102	52	X
29	KR	Kuenzil Creek	10270102	82	X
30	KR	Little Cross Creek	10270102	61	X
31	KR	Lost Creek	10270102	60	X
32	KR	Mulberry Creek	10270102	77	X
33	KR	Post Creek	10270102	101	X
34	KR	Snake Creek	10270102	95	X

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#	Basin	Stream Name	HUC 8	Segment	FP
35	KR	Spring Creek	10270102	54	<u>X</u>
36	KR	Unnamed Stream	10270102	8	<u>X</u>
37	KR	Whetstone Creek	10270102	104	<u>X</u>
38	KR	Wilson Creek	10270102	50	<u>X</u>
39	KR	Banner Creek	10270103	45	<u>X</u>
40	KR	Bills Creek	10270103	47	<u>X</u>
41	KR	Burr Oak Creek	10270103	8	<u>X</u>
42	KR	Catamount Creek	10270103	49	<u>X</u>
43	KR	Clear Creek	10270103	19	<u>X</u>
44	KR	Grasshopper Creek	10270103	18	<u>X</u>
45	KR	Grasshopper Creek	10270103	20	<u>X</u>
46	KR	Negro Creek	10270103	43	<u>X</u>
47	KR	Otter Creek	10270103	41	<u>X</u>
48	KR	Deer Creek	10270104	701	<u>X</u>
49	KR	Kent Creek	10270104	73	<u>X</u>
50	KR	Little Stranger Creek	10270104	881	<u>X</u>
51	KR	Little Stranger Creek	10270104	959	<u>X</u>
52	KR	Little Wakarusa Creek	10270104	71	<u>X</u>
53	KR	Mooney Creek	10270104	1011	<u>X</u>
54	KR	Walnut Creek	10270104	13	<u>X</u>
55	KR	Big Blue River	10270205	2	<u>X</u>
56	KR	De Shazer Creek	10270205	55	<u>X</u>
57	KR	Elm Creek, North	10270205	41	<u>X</u>
58	KR	Little Timber Creek	10270205	48	<u>X</u>
59	KR	Timber Creek	10270205	64	<u>X</u>
60	KR	Gray Branch	10270207	27	<u>X</u>
61	KR	Iowa Creek	10270207	34	<u>X</u>
62	KR	Mill Creek, South Fork	10270207	31	<u>X</u>
63	KR	Rose Creek	10270207	12	<u>X</u>
64	KR	School Creek	10270207	49	<u>X</u>
65	LA	Gar Creek	11030010	8	<u>X</u>
66	LA	Little Cheyenne Creek	11030011	7	<u>X</u>
67	LA	Little Cow Creek	11030011	2	<u>X</u>
68	LA	Owl Creek	11030011	18	<u>X</u>
69	LA	Plum Creek	11030011	4	<u>X</u>
70	LA	Beaver Creek	11030012	26	<u>X</u>
71	LA	Emma Creek, Middle	11030012	7	<u>X</u>

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#	Basin	Stream Name	HUC 8	Segment	FP
72	LA	Emma Creek, West	11030012	8	<u>X</u>
73	LA	Jester Creek	11030012	2	<u>X</u>
74	LA	Kisiwa Creek	11030012	15	<u>X</u>
75	LA	Lone Tree Creek	11030012	20	<u>X</u>
76	LA	Spring Creek	11030013	37	<u>X</u>
77	LA	Winser Creek	11030013	32	<u>X</u>
78	LA	Dooleyville Creek	11030014	8	<u>X</u>
79	LA	Unnamed Stream	11030014	999	<u>X</u>
80	LA	Mead Creek	11030015	10	<u>X</u>
81	LA	Natrona Creek	11030015	307	<u>X</u>
82	LA	Negro Creek	11030015	13	<u>X</u>
83	LA	Pat Creek	11030015	11	<u>X</u>
84	LA	Polecat Creek	11030016	59	<u>X</u>
85	LA	Sand Creek	11030016	14	<u>X</u>
86	LA	Spring Creek	11030016	2	<u>X</u>
87	LA	Little Beaver Creek	11060001	11	<u>X</u>
88	LA	Big Sandy Creek	11060002	5	<u>X</u>
89	LA	Cave Creek	11060002	28	<u>X</u>
90	LA	Dog Creek	11060002	29	<u>X</u>
91	LA	Turkey Creek	11060003	7	<u>X</u>
92	LA	Chicken Creek	11060005	36	<u>X</u>
93	LA	Duck Creek	11060005	32	<u>X</u>
94	LA	Meridian Creek	11060005	20	<u>X</u>
95	LA	Rock Creek	11060005	23	<u>X</u>
96	LA	Shoo Fly Creek, East	11060005	19	<u>X</u>
97	MC	Chicken Creek	10290101	70	<u>X</u>
98	MC	Hickory Creek	10290101	8	<u>X</u>
99	MC	Jersey Creek	10290101	76	<u>X</u>
100	MC	Mud Creek	10290101	78	<u>X</u>
101	MC	Plum Creek	10290101	2	<u>X</u>
102	MC	Soldier Creek	10290101	1083	<u>X</u>
103	MC	Tequa Creek	10290101	44	<u>X</u>
104	MC	Tequa Creek, South Branch	10290101	45	<u>X</u>
105	MC	Unnamed Stream	10290101	5	<u>X</u>
106	MC	Willow Creek	10290101	94	<u>X</u>
107	MC	Wolf Creek	10290101	96	<u>X</u>
108	MC	Dorsey Creek	10290102	22	<u>X</u>

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#	Basin	Stream Name	HUC 8	Segment	FP
109	MC	Elm Creek	10290102	40	<u>X</u>
110	MC	Middle Creek	10290102	30	<u>X</u>
111	MC	Mine Creek	10290102	1244	<u>X</u>
112	MC	Rock Creek	10290102	27	<u>X</u>
113	MC	Clever Creek	10290103	7	<u>X</u>
114	MC	Bunion Creek	10290104	39	<u>X</u>
115	MC	Drywood Creek, West Fork	10290104	323	<u>X</u>
116	MC	Pawnee Creek	10290104	313	<u>X</u>
117	MC	Tennyson Creek	10290104	31	<u>X</u>
118	MC	Turkey Creek	10290104	33	<u>X</u>
119	MC	Walnut Creek	10290104	32	<u>X</u>
120	MO	Cedar Creek	10240005	51	<u>X</u>
121	MO	Mosquito Creek	10240005	73	<u>X</u>
122	MO	Spring Creek	10240005	65	<u>X</u>
123	MO	Clear Creek	10240007	132	<u>X</u>
124	MO	Rock Creek	10240007	20	<u>X</u>
125	MO	Brush Creek	10240008	26	<u>X</u>
126	MO	Corral Creek	10240011	175	<u>X</u>
127	MO	Fivemile Creek	10240011	35	<u>X</u>
128	MO	Independence Creek, North Branch	10240011	29	<u>X</u>
129	MO	White Clay Creek	10240011	31	<u>X</u>

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Table 7: Approval of Primary Contact Recreation for Classified Streams - Not Subject to the EPA's Promulgation for Primary Contact Recreation. New and revised designations are shown in bold and are underlined.

#	Basin	Stream Name	HUC 8	Segment	Previous CR	CR
1	KR	Brenner Heights Creek	10270104	1175	b	<u>B</u>
2	KR	Mattoon Creek	10270104	1178	a	<u>B</u>
3	MO	Corral Creek	10240011	175	b	<u>C</u>

Table 8: Approval of Primary Contact Recreation for Classified Streams - Subject to the EPA's Promulgation for Primary Contact. New and revised designations are shown in bold and are underlined.

#	Basin	Stream Name	HUC 8	Segment	Previous CR	CR
1	KR	School Creek	10270207	49	b	<u>C</u>
2	LA	Wagoner Creek	11060001	36	b	<u>C</u>
3	LA	Dog Creek	11060002	29	b	<u>C</u>
4	LA	Wildcat Creek	11060002	12	b	<u>C</u>
5	MC	Ottawa Creek	10290101	9011	b	<u>C</u>
6	MC	Tauy Creek	10290101	11	b	<u>C</u>
7	MC	Laberdeie Creek, East	10290103	13	b	<u>C</u>
8	MO	Mill Creek	10240005	52	Promulgated PCR	<u>C</u>
9	MO	Pedee Creek	10240008	41	Promulgated PCR	<u>C</u>
10	MO	Camp Branch	10300101	56	b	<u>C</u>

Table 9: Approval of Primary Contact Recreation for Classified Streams - Subject to the EPA's Promulgation for Secondary Contact. New and revised designations are shown in bold and are underlined.

#	Basin	Stream Name	HUC 8	Segment	Previous CR	CR
1	CI	Stink Creek	11040008	17	b	<u>C</u>

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Table 10: Approval of Secondary Contact Recreation for Classified Streams - Not Subject to the EPA's Promulgation for Primary Contact Recreation. New and revised designations are shown in bold and are underlined.

#	Basin	Stream Name	HUC 8	Segment	Previous CR	CR
1	KR	Cedar Creek	10250016	63	-	<u>b</u>
2	KR	White Rock Creek	10250016	50	C	<u>b</u>

Table 11: Approval of Secondary Contact Recreational Use Changes - Subject to the EPA's Promulgation Primary Contact Promulgation. New and revised designations are shown in bold and are underlined.

#	Basin	Stream Name	HUC 8	Segment	Previous CR	CR
1	MC	Richland Creek	10290102	41	Promulgated PCR	<u>b</u>
2	MO	Coon Creek	10240005	70	Promulgated PCR	<u>b</u>
3	MO	Turkey Creek	10240007	4	Promulgated PCR	<u>b</u>
4	MO	Roys Creek	10240008	40	Promulgated PCR	<u>b</u>

Table 12: New Classified Stream Segments Which the EPA is Approving Addition to the Kansas Surface Water Register. The new contact recreation (CR) and Aquatic Life (AL) use designations are in bold and are underlined. New and revised designations are shown in bold and are underlined.

#	Basin	Stream Name	HUC 8	Segment	CR	AL
1	MO	Conner Creek	10240011	6368	<u>C</u>	<u>E</u>
2	MO	Rock Creek	10300101	881	<u>a</u>	<u>E</u>

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Table 13: Classified Stream Segments Which the EPA is Approving Removal from the *Kansas Surface Water Register* – Not Subject to the EPA’s Promulgation for Primary Contact Recreation. Use Designations for Classified Streams. New and revised designations are shown in bold and are underlined. “X” denotes an assigned designated use. “O” denotes non-support of designated use.

#	Basin	Stream Name	HUC 8	Segment	AL	CR	DS	FP	GR	IW	IR	LW
1	CI	Buffalo Creek	11040005	10	E	b	O	O		O	O	
2	CI	Unnamed Stream	11040007	1253	S	b						
3	CI	Unnamed Stream	11040007	1259	S	b						
4	CI	Trout Creek	11040008	19	E	b						

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Table 14: Reserving Action on Removal of Food Procurement Uses for Classified Streams. New and revised designations are shown in bold and are underlined. “X” denotes assigned designated use. “O” denotes non-support of designated use.

#	Basin	Stream Name	HUC 8	Segment	Previous Use Designation	FP
1	CI	Cimarron River, North Fork	11040003	1	X	O
2	CI	Stumpie Arroyo	11040007	1247		O
3	CI	Gyp Creek	11040008	25		O
4	CI	Indian Creek	11040008	14		O
5	CI	Kiger Creek	11040008	12		O
6	CI	Twomile Creek	11040008	15		O
7	CI	Wiggins Creek	11040008	1173		O
8	CI	West Creek	11050001	24		O
9	KR	Antelope Creek	10250016	66		O
10	KR	Ash Creek	10250016	65		O
11	KR	Big Timber Creek	10250016	1301		O
12	KR	Burr Oak Creek	10250016	48	X	O
13	KR	Cedar Creek	10250016	63		O
14	KR	Dry Creek	10250016	80	X	O
15	KR	Long Branch	10250016	68		O
16	KR	Norway Creek	10250016	73		O
17	KR	Otter Creek	10250016	79		O
18	KR	Spring Creek	10250016	71		O
19	KR	Walnut Creek	10250016	40		O
20	KR	Walnut Creek	10250016	46		O
21	KR	White Rock Creek	10250016	47	X	O
22	KR	White Rock Creek, North Branch	10250016	60		O
23	KR	Buffalo Creek, East	10250017	68		O
24	KR	Buffalo Creek, Middle	10250017	9037		O
25	KR	Cheyenne Creek	10250017	55		O
26	KR	Coal Creek	10250017	47		O
27	KR	Cool Creek	10250017	50		O
28	KR	Dry Creek	10250017	1369		O
29	KR	East Creek	10250017	21		O
30	KR	Elk Creek	10250017	14	X	O
31	KR	Elk Creek	10250017	15	X	O
32	KR	Elk Creek, West Fork	10250017	16		O

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#	Basin	Stream Name	HUC 8	Segment	Previous Use Designation	FP
33	KR	Elm Creek, East Branch	10250017	62		O
34	KR	Elm Creek, West Branch	10250017	59		O
35	KR	Finney Creek	10250017	64		O
36	KR	Hay Creek	10250017	49		O
37	KR	Lincoln Creek	10250017	65	X	O
38	KR	Marsh Creek	10250017	35	X	O
39	KR	Marsh Creek, East	10250017	42	X	O
40	KR	Marsh Creek, West	10250017	36		O
41	KR	Oak Creek	10250017	58		O
42	KR	Otter Creek	10250017	66	X	O
43	KR	Riley Creek	10250017	24	X	O
44	KR	Salt Creek	10250017	22	X	O
45	KR	Salt Creek	10250017	23		O
46	KR	Spring Creek	10250017	53		O
47	KR	Spring Creek	10250017	1354		O
48	KR	Turkey Creek	10250017	51	X	O
49	KR	Wolf Creek	10250017	38	X	O
50	KR	Humboldt Creek	10270101	10	X	O
51	KR	Swede Creek	10270101	17	X	O
52	KR	Adams Creek	10270102	53		O
53	KR	Antelope Creek	10270102	67		O
54	KR	Bartlett Creek	10270102	55		O
55	KR	Blackjack Creek	10270102	64		O
56	KR	Blacksmith Creek	10270102	102	X	O
57	KR	Bourbonais Creek	10270102	63		O
58	KR	Coal Creek	10270102	46	X	O
59	KR	Deep Creek, East Branch	10270102	72		O
60	KR	Dog Creek	10270102	78		O
61	KR	Doyle Creek	10270102	69		O
62	KR	Dry Creek	10270102	79		O
63	KR	Elm Creek	10270102	103		O
64	KR	Elm Slough	10270102	58		O
65	KR	Emmons Creek	10270102	66		O
66	KR	Hendricks Creek	10270102	73		O
67	KR	Hise Creek	10270102	43		O

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#	Basin	Stream Name	HUC 8	Segment	Previous Use Designation	FP
68	KR	Indian Creek	10270102	1365	X	O
69	KR	James Creek	10270102	87		O
70	KR	Johnson Creek	10270102	84		O
71	KR	Little Muddy Creek	10270102	99		O
72	KR	Loire Creek	10270102	80		O
73	KR	Messhoss Creek	10270102	96		O
74	KR	Mission Creek, North Branch	10270102	83		O
75	KR	Mission Creek, South Branch	10270102	38		O
76	KR	Mud Creek	10270102	56		O
77	KR	Muddy Creek, West Fork	10270102	93	X	O
78	KR	Paw Paw Creek	10270102	75		O
79	KR	Pretty Creek	10270102	74		O
80	KR	Riley Creek	10270102	1223		O
81	KR	Salt Creek	10270102	88		O
82	KR	Sand Creek	10270102	65		O
83	KR	Shunganunga Creek	10270102	39	X	O
84	KR	Snokomo Creek	10270102	85		O
85	KR	Spring Creek	10270102	48		O
86	KR	Spring Creek	10270102	76		O
87	KR	Spring Creek	10270102	105		O
88	KR	Stinson Creek	10270102	394	X	O
89	KR	Turkey Creek	10270102	71		O
90	KR	Unnamed Stream	10270102	1367	X	O
91	KR	Vassar Creek	10270102	100		O
92	KR	Walnut Creek	10270102	91	X	O
93	KR	Wells Creek	10270102	68		O
94	KR	Wolf Creek	10270102	49		O
95	KR	Barnes Creek	10270103	39		O
96	KR	Cedar Creek, South	10270103	9032	X	O
97	KR	Claywell Creek	10270103	56		O
98	KR	Coal Creek	10270103	50	X	O
99	KR	Honey Creek	10270103	55		O
100	KR	Little Grasshopper Creek	10270103	16		O
101	KR	Little Slough Creek	10270103	805		O
102	KR	Little Wild Horse Creek	10270103	57		O

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#	Basin	Stream Name	HUC 8	Segment	Previous Use Designation	FP
103	KR	Mosquito Creek	10270103	602		O
104	KR	Muddy Creek	10270103	26	X	O
105	KR	Nebo Creek	10270103	48		O
106	KR	Plum Creek	10270103	36	X	O
107	KR	Rock Creek	10270103	34	X	O
108	KR	Rock Creek	10270103	53	X	O
109	KR	Slough Creek	10270103	9	X	O
110	KR	Spring Creek	10270103	42		O
111	KR	Squaw Creek	10270103	38		O
112	KR	Tick Creek	10270103	52		O
113	KR	Wolfey Creek	10270103	27	X	O
114	KR	Baldwin Creek	10270104	69		O
115	KR	Barber Creek	10270104	373	X	O
116	KR	Brenner Heights Creek	10270104	1175	X	O
117	KR	Brush Creek	10270104	49		O
118	KR	Brush Creek, West	10270104	46		O
119	KR	Burys Creek	10270104	32	X	O
120	KR	Buttermilk Creek	10270104	44		O
121	KR	Camp Creek	10270104	41	X	O
122	KR	Camp Creek	10270104	66	X	O
123	KR	Camp Creek	10270104	74	X	O
124	KR	Chicken Creek	10270104	79		O
125	KR	Cow Creek	10270104	58		O
126	KR	Dawson Creek	10270104	45		O
127	KR	Fall Creek	10270104	52		O
128	KR	Hanson Creek	10270104	437	X	O
129	KR	Hays Creek	10270104	406		O
130	KR	Hog Creek	10270104	54		O
131	KR	Indian Creek	10270104	48		O
132	KR	Jarbalo Creek	10270104	51		O
133	KR	Little Kaw Creek	10270104	59		O
134	KR	Little Sandy Creek	10270104	883		O
135	KR	Little Turkey Creek	10270104	62	X	O
136	KR	Mattoon Creek	10270104	1178		O
137	KR	Mission Creek, East	10270104	61	X	O

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#	Basin	Stream Name	HUC 8	Segment	Previous Use Designation	FP
138	KR	Mission Creek, West	10270104	1164		O
139	KR	Muncie Creek	10270104	55	X	O
140	KR	Oakley Creek	10270104	56		O
141	KR	Piper Creek	10270104	1154		O
142	KR	Plum Creek	10270104	50		O
143	KR	Scatter Creek	10270104	9013		O
144	KR	Spoon Creek	10270104	75		O
145	KR	Stone House Creek	10270104	57	X	O
146	KR	Stone House Creek, East	10270104	9057	X	O
147	KR	Stone House Creek, West	10270104	830		O
148	KR	Tonganoxie Creek	10270104	14	X	O
149	KR	Unnamed Stream	10270104	11		O
150	KR	Unnamed Stream	10270104	16		O
151	KR	Unnamed Stream	10270104	583		O
152	KR	Unnamed Stream	10270104	584		O
153	KR	Wakarusa River, South Branch	10270104	63	X	O
154	KR	Washington Creek	10270104	36	X	O
155	KR	Yankee Tank Creek	10270104	70		O
156	KR	Ackerman Creek	10270205	49		O
157	KR	Bluff Creek	10270205	573		O
158	KR	Bucksnort Creek	10270205	566		O
159	KR	Carter Creek	10270205	59		O
160	KR	Deadman Creek	10270205	60		O
161	KR	Deer Creek	10270205	36		O
162	KR	Fancy Creek, North Fork	10270205	61	X	O
163	KR	Game Fork	10270205	54		O
164	KR	Kearney Branch	10270205	58		O
165	KR	Mission Creek	10270205	22		O
166	KR	Otter Creek	10270205	67	X	O
167	KR	Phiel Creek	10270205	68		O
168	KR	School Branch	10270205	63		O
169	KR	Spring Creek	10270205	19	X	O
170	KR	Spring Creek	10270205	65	X	O
171	KR	Weyer Creek	10270205	50		O
172	KR	Ash Creek	10270207	36	X	O

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#	Basin	Stream Name	HUC 8	Segment	Previous Use Designation	FP
173	KR	Beaver Creek	10270207	38		O
174	KR	Bowman Creek	10270207	21	X	O
175	KR	Camp Creek	10270207	35		O
176	KR	Camp Creek	10270207	44		O
177	KR	Cedar Creek	10270207	40		O
178	KR	Fawn Creek	10270207	45		O
179	KR	Joy Creek	10270207	13		O
180	KR	Lane Branch	10270207	39		O
181	KR	Myer Creek	10270207	26	X	O
182	KR	Riddle Creek	10270207	17		O
183	KR	Salt Creek	10270207	19	X	O
184	KR	Silver Creek	10270207	28		O
185	KR	Spring Creek	10270207	30		O
186	KR	Walnut Creek	10270207	41		O
187	LA	Rattlesnake Creek	11030009	4	X	O
188	LA	Spring Creek	11030009	7		O
189	LA	Big Slough	11030010	9011	X	O
190	LA	Blood Creek	11030011	15		O
191	LA	Dry Creek	11030011	22		O
192	LA	Jarvis Creek	11030011	19		O
193	LA	Lost Creek	11030011	17		O
194	LA	Salt Creek	11030011	21		O
195	LA	Spring Creek	11030011	20		O
196	LA	Black Kettle Creek	11030012	368		O
197	LA	Bull Creek	11030012	24		O
198	LA	Chisholm Creek, Middle Fork	11030012	817	X	O
199	LA	Dry Creek	11030012	22		O
200	LA	Horse Creek	11030012	19		O
201	LA	Running Turkey Creek	11030012	25		O
202	LA	Salt Creek	11030012	21		O
203	LA	Sand Creek	11030012	23		O
204	LA	Turkey Creek	11030012	11		O
205	LA	Turkey Creek	11030012	12		O
206	LA	Big Slough	11030013	11	X	O
207	LA	Bitter Creek	11030013	28		O

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#	Basin	Stream Name	HUC 8	Segment	Previous Use Designation	FP
208	LA	Dog Creek	11030013	531		O
209	LA	Dry Creek	11030013	15		O
210	LA	Dry Creek	11030013	16		O
211	LA	Hargis Creek	11030013	24		O
212	LA	Lost Creek	11030013	23		O
213	LA	Oak Creek	11030013	26		O
214	LA	Salt Creek	11030013	22		O
215	LA	Spring Creek	11030013	19		O
216	LA	Spring Creek	11030013	21		O
217	LA	Spring Creek	11030013	34		O
218	LA	W V C Floodway	11030013	456		O
219	LA	W V C Floodway	11030013	9010	X	O
220	LA	W V C Floodway	11030013	9011		O
221	LA	Crow Creek	11030014	11		O
222	LA	Rock Creek	11030014	13		O
223	LA	Spring Creek	11030014	14		O
224	LA	Unnamed Stream	11030014	289		O
225	LA	Unnamed Stream	11030014	411		O
226	LA	Wolf Creek	11030014	9		O
227	LA	Coon Creek	11030015	9		O
228	LA	Coon Creek	11030015	17		O
229	LA	Hunter Creek	11030015	14		O
230	LA	Nester Creek	11030015	15		O
231	LA	Sand Creek	11030015	18		O
232	LA	Spring Creek	11030015	8		O
233	LA	Unnamed Stream	11030015	249		O
234	LA	Unnamed Stream	11030015	253		O
235	LA	Unnamed Stream	11030015	270		O
236	LA	Unnamed Stream	11030015	271		O
237	LA	Unnamed Stream	11030015	518		O
238	LA	Unnamed Stream	11030015	520		O
239	LA	Unnamed Stream	11030015	579		O
240	LA	Clearwater Creek	11030016	4		O
241	LA	Clearwater Creek	11030016	7		O
242	LA	Spring Creek	11030016	15		O

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#	Basin	Stream Name	HUC 8	Segment	Previous Use Designation	FP
243	LA	Burlington Creek	11060001	28		<u>O</u>
244	LA	Cedar Creek	11060001	32		<u>O</u>
245	LA	Gardners Branch	11060001	39		<u>O</u>
246	LA	Goose Creek	11060001	34		<u>O</u>
247	LA	Myers Creek	11060001	24		<u>O</u>
248	LA	Otter Creek	11060001	20		<u>O</u>
249	LA	Spring Creek	11060001	21		<u>O</u>
250	LA	Wagoner Creek	11060001	36		<u>O</u>
251	LA	Ash Creek	11060002	20		<u>O</u>
252	LA	Deadman Creek	11060002	22		<u>O</u>
253	LA	Nescatunga Creek, East Branch	11060002	27		<u>O</u>
254	LA	Red Creek	11060002	16		<u>O</u>
255	LA	Spring Creek	11060002	24		<u>O</u>
256	LA	Unnamed Stream	11060002	503		<u>O</u>
257	LA	Wildcat Creek	11060002	12		<u>O</u>
258	LA	Yellowstone Creek	11060002	17		<u>O</u>
259	LA	Antelope Creek	11060003	22		<u>O</u>
260	LA	Bear Creek	11060003	13		<u>O</u>
261	LA	Cedar Creek	11060003	20	X	<u>O</u>
262	LA	Driftwood Creek	11060003	905		<u>O</u>
263	LA	Dry Creek	11060003	21		<u>O</u>
264	LA	Elm Creek, North	11060003	4	X	<u>O</u>
265	LA	Elm Creek, South	11060003	5	X	<u>O</u>
266	LA	Elm Creek, South East Branch	11060003	10		<u>O</u>
267	LA	Little Mule Creek	11060003	9		<u>O</u>
268	LA	Medicine Lodge River, East Branch	11060003	24	X	<u>O</u>
269	LA	Mulberry Creek	11060003	14		<u>O</u>
270	LA	Otter Creek	11060003	25		<u>O</u>
271	LA	Puckett Creek	11060003	15		<u>O</u>
272	LA	Sand Creek	11060003	17		<u>O</u>
273	LA	Soldier Creek	11060003	27		<u>O</u>
274	LA	Unnamed Stream	11060003	370		<u>O</u>
275	LA	Unnamed Stream	11060003	415		<u>O</u>
276	LA	Unnamed Stream	11060003	452		<u>O</u>
277	LA	Unnamed Stream	11060003	559		<u>O</u>

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#	Basin	Stream Name	HUC 8	Segment	Previous Use Designation	FP
278	LA	Wilson Slough	11060003	23		O
279	LA	Cooper Creek	11060004	71		O
280	LA	Crooked Creek	11060004	24		O
281	LA	Little Sandy Creek	11060004	39		O
282	LA	Little Sandy Creek, East Branch	11060004	65		O
283	LA	Little Sandy Creek, West Branch	11060004	9039		O
284	LA	Rush Creek	11060004	69		O
285	LA	Salty Creek	11060004	40		O
286	LA	Sandy Creek, West	11060004	67	X	O
287	LA	Allen Creek	11060005	40		O
288	LA	Baehr Creek	11060005	22		O
289	LA	Big Spring Creek	11060005	34		O
290	LA	Bitter Creek	11060005	4		O
291	LA	Chickaskia River, North Fork	11060005	37	X	O
292	LA	Dry Creek	11060005	17		O
293	LA	Fall Creek	11060005	14	X	O
294	LA	Kemp Creek	11060005	49		O
295	LA	Red Creek	11060005	43		O
296	LA	Rose Bud Creek	11060005	44		O
297	LA	Rush Creek	11060005	45		O
298	LA	Sandy Creek	11060005	30	X	O
299	LA	Silver Creek	11060005	29	X	O
300	LA	Skunk Creek	11060005	39		O
301	LA	Spring Creek	11060005	31	X	O
302	LA	Spring Creek	11060005	9047	X	O
303	LA	Wild Horse Creek	11060005	41		O
304	LA	Wildcat Creek	11060005	24		O
305	MC	Appanoose Creek	10290101	16	X	O
306	MC	Appanoose Creek, East	10290101	89		O
307	MC	Batch Creek	10290101	86		O
308	MC	Blue Creek	10290101	81		O
309	MC	Bradshaw Creek	10290101	75		O
310	MC	Cherry Creek	10290101	74		O
311	MC	Chicken Creek	10290101	93		O
312	MC	Coal Creek	10290101	48	X	O

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#	Basin	Stream Name	HUC 8	Segment	Previous Use Designation	FP
313	MC	Dry Creek	10290101	57		O
314	MC	Dry Creek	10290101	95		O
315	MC	Duck Creek	10290101	41	X	O
316	MC	Eightmile Creek	10290101	13	X	O
317	MC	Eightmile Creek, West Fork	10290101	88		O
318	MC	Frog Creek	10290101	42		O
319	MC	Hard Fish Creek	10290101	47		O
320	MC	Hill Creek	10290101	71	X	O
		Hundred and Forty Two Mile Creek				
321	MC	Hundred and Forty Two Mile Creek	10290101	25	X	O
322	MC	Hundred and Ten Mile Creek	10290101	25	X	O
323	MC	Kenoma Creek	10290101	64	X	O
324	MC	Locust Creek	10290101	69		O
325	MC	Long Creek	10290101	1531	X	O
326	MC	Mosquito Creek	10290101	52		O
327	MC	Mud Creek	10290101	49		O
328	MC	Mud Creek	10290101	91		O
329	MC	Mute Creek	10290101	92		O
330	MC	Pottawatomie Creek, North Fork	10290101	65	X	O
331	MC	Pottawatomie Creek, South Fork	10290101	67	X	O
332	MC	Rock Creek	10290101	97	X	O
333	MC	Sac Branch	10290101	60		O
334	MC	Sac Branch, North Fork	10290101	9054		O
335	MC	Sac Creek	10290101	60	X	O
336	MC	Sand Creek	10290101	82		O
337	MC	Smith Creek	10290101	77		O
338	MC	Spring Creek	10290101	84		O
339	MC	Switzler Creek	10290101	80	X	O
340	MC	Tequa Creek, East Branch	10290101	46	X	O
341	MC	Thomas Creek	10290101	72		O
342	MC	Turkey Creek	10290101	4		O
343	MC	Turkey Creek	10290101	6		O
344	MC	Walnut Creek	10290101	90	X	O
345	MC	Wilson Creek	10290101	83		O
346	MC	Buck Creek	10290102	44		O
347	MC	Bull Creek	10290102	26		O

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#	Basin	Stream Name	HUC 8	Segment	Previous Use Designation	FP
348	MC	Davis Creek	10290102	38		O
349	MC	Elm Branch	10290102	48		O
350	MC	Elm Branch	10290102	53		O
351	MC	Hushpuckney Creek	10290102	37		O
352	MC	Jake Branch	10290102	54		O
353	MC	Jordan Branch	10290102	36		O
354	MC	Little Bull Creek	10290102	51	X	O
355	MC	Little Sugar Creek, North Fork	10290102	43		O
356	MC	Martin Creek	10290102	99		O
357	MC	Mound Creek	10290102	35		O
358	MC	Richland Creek	10290102	41		O
359	MC	Smith Branch	10290102	47		O
360	MC	Spring Creek	10290102	50		O
361	MC	Sugar Creek, North	10290102	39		O
362	MC	Tenmile Creek	10290102	25		O
363	MC	Turkey Creek	10290102	45		O
364	MC	Unnamed Stream	10290102	754		O
365	MC	Walnut Creek	10290102	14		O
366	MC	Walnut Creek	10290102	34		O
367	MC	Walnut Creek	10290102	52		O
368	MC	Elk Creek	10290103	11	X	O
369	MC	Fish Creek	10290103	8		O
370	MC	Indian Creek	10290103	12		O
371	MC	Irish Creek	10290103	202		O
372	MC	Laberdeie Creek, East	10290103	13		O
373	MC	Limestone Creek	10290103	5		O
374	MC	Little Osage River, Middle Fork	10290103	36		O
375	MC	Little Osage River, North Fork	10290103	220		O
376	MC	Little Osage River, South Fork	10290103	249		O
377	MC	Lost Creek	10290103	10		O
378	MC	Owl Creek	10290103	9		O
379	MC	Reagan Branch	10290103	6		O
380	MC	Bone Creek	10290104	9019		O
381	MC	Buck Run	10290104	46		O
382	MC	Cedar Creek	10290104	41		O

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#	Basin	Stream Name	HUC 8	Segment	Previous Use Designation	FP
383	MC	Cox Creek	10290104	324		O
384	MC	Drywood Creek, Moores Branch	10290104	17		O
385	MC	Drywood Creek, West Fork	10290104	19		O
386	MC	Elm Creek	10290104	15		O
387	MC	Hinton Creek	10290104	38		O
388	MC	Lath Branch	10290104	42		O
389	MC	Little Mill Creek	10290104	34		O
390	MC	Robinson Branch	10290104	40		O
391	MC	Shiloh Creek	10290104	36		O
392	MC	Walnut Creek	10290104	47		O
393	MC	Wolfpen Creek	10290104	37		O
394	MC	Wolverine Creek	10290104	35		O
395	MC	Harless Creek	10290108	67		O
396	MO	Cold Ryan Branch	10240005	70		O
397	MO	Coon Creek	10240005	71		O
398	MO	Halling Creek	10240005	68		O
399	MO	Mill Creek	10240005	52		O
400	MO	Mission Creek	10240005	339		O
401	MO	Rittenhouse Branch	10240005	69		O
402	MO	Striker Branch	10240005	72		O
403	MO	Unnamed Stream	10240005	55	X	O
404	MO	Unnamed Stream	10240005	240		O
405	MO	Wolf River, Middle Fork	10240005	67	X	O
406	MO	Wolf River, North Fork	10240005	66	X	O
407	MO	Deer Creek	10240007	18		O
408	MO	Harris Creek	10240007	166		O
409	MO	Illinois Creek	10240007	30	X	O
410	MO	Tennessee Creek	10240007	29		O
411	MO	Wildcat Creek	10240007	23		O
412	MO	Noharts Creek	10270008	42		O
413	MO	Pedee Creek	10240008	41		O
414	MO	Roys Creek	10240008	40	X	O
415	MO	Terrapin Creek	10240008	308	X	O
416	MO	Conner Creek	10240011	6368		O
417	MO	Deer Creek	10240011	32		O

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#	Basin	Stream Name	HUC 8	Segment	Previous Use Designation	FP
418	MO	Fairfax Drain Ditch	10240011	9098		O
419	MO	Jersey Creek	10240011	38	X	O
420	MO	Jordan Creek	10240011	30		O
421	MO	Nine Mile Creek	10240011	161	X	O
422	MO	Owl Creek	10240011	33		O
423	MO	Peters Creek	10240011	27	X	O
424	MO	Quarry Creek	10240011	176		O
425	MO	Rock Creek	10240011	21		O
426	MO	Salt Creek	10240011	34	X	O
427	MO	Seven Mile Creek	10240011	157	X	O
428	MO	Smith Creek	10240011	28		O
429	MO	Sorter Creek	10240011	142		O
430	MO	Threemile Creek	10240011	36		O
431	MO	Walnut Creek	10240011	23		O
432	MO	Walnut Creek	10240011	25		O
433	MO	Whiskey Creek	10240011	235		O
434	MO	White Clay Creek	10240011	9031		O
435	MO	Brush Creek	10300101	54		O
436	MO	Coffee Creek	10300101	57		O
437	MO	Negro Creek	10300101	58		O
438	MO	Rock Creek	10300101	881		O

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Table 15: Reserve Action on Combining Segment 10 and 11 of Arkansas River, Salt Fork.
 “X” denotes assigned designated use.

#	Basin	Stream Name	HUC 8	Segment	AL	CR	DS	FP	GR	IW	IR	LW
1	LA	Arkansas River, Salt Fork	11060002	11	E	b	X	X	X	X	X	X

Table 16: Reserved Action on Addition of New Classified Segment. New and revised designations are shown in bold and are underlined.

#	Basin	Stream Name	HUC 8	Segment	CR	AL
1	VE	Birch Creek	11070106	9034	<u>b</u>	<u>E</u>

APPENDIX B:

BIOLOGICAL EVALUATION: EPA ACTION ON WATER QUALITY

STANDARDS ADOPTED BY THE KANSAS DEPARTMENT OF HEALTH AND

ENVIRONMENT: TABLES OF CRITERIA SUBMITTED 4/16/2015

KANSAS SURFACE WATER QUALITY STANDARDS

Tables of Numeric Criteria



Prepared by The Kansas Department of Health and Environment

Bureau of Water

December 6, 2004 Oct 1, 2012

January 21, 2015

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Table 1a. Aquatic Life, Agriculture, And Public Health Designated Uses Numeric Criteria.

PARAMETER	Use Category					
	AQUATIC LIFE	AGRICULTURE	LIVESTOCK	IRRIGATION	FOOD-PROCUREMENT	DOMESTIC-WATER-SUPPLY
RADIONUCLIDES (pCi/L)						
gross-beta radioactivity	a	a	a	a	a	50
gross-alpha particles including radium-226, but not radon or uranium	a	a	a	a	a	15
radium 226 and 228 combined	a	a	a	a	a	5
strontium-90	a	a	a	a	a	8
tritium	a	a	a	a	a	20,000
METALS (µg/L)						
antimony, total	88	30	a	a	640	6
arsenic (III)	360	50	a	a	b	b
arsenic (V)	850	48	a	a	a	a
arsenic, total	340	150	200	100	20.5	40
barium	a	a	a	a	a	1,000
beryllium, total	a	a	a	a	a	4
beron, total	a	a	5,000	750	a	a
cadmium, total	table 1b	table 1b	20	10	170	5
chromium (III)	table 1b	table 1b	a	a	3,433,000	50
chromium (VI)	48	14	a	a	3,400	50
chromium, total	a	40	1,000	100	a	100
copper, total	table 1b	table 1b	500	200	a	1,300
lead, total	table 1b	table 1b	100	5,000	a	15
mercury, total	1.4	0.77	10	a	0.146	b
nickel, total	table 1b	table 1b	500	200	4,600	610
selenium (V)	11.2	a	a	a	a	a
selenium, total	29	5	50	20	4,200	170
silver, total	table 1b	a	a	a	a	50
thallium, total	1,400	40	a	a	b	2
zinc, total	table 1b	table 1b	25,000	2,000	26,000	7,400
OTHER INORGANIC SUBSTANCES (µg/L)						
ammonia	table 1c	table 1c	a	a	a	a
asbestos (fibers/L)	a	a	a	a	a	7,000,000
Chloride	860,000	e	a	a	a	250,000
chlorine, total residual	19	14	a	a	a	a
cyanide (free)	22	5.2	a	a	220,000	200
Fluoride	a	a	2,000	1,000	a	2,000
nitrate (as N)	a	a	a	a	a	10,000
nitrite + nitrate (as N)	a	a	100,000	a	a	10,000
phosphorus, elemental (white)	a	0.1	a	a	a	a
sulfate	a	a	1,000,000	a	a	250,000
ORGANIC SUBSTANCES (µg/L)						
Benzenes.....	14	6.7	a	a	a	a
aminebenzene (aniline)						

See previous note on page number + header

Table 1a. Aquatic Life, Agriculture, And Public Health Designated Uses Numeric Criteria.

PARAMETER	Use Category					
	AQUATIC LIFE		AGRICULTURE		PUBLIC HEALTH	
	ACUTE	CHRONIC	LIVESTOCK	IRRIGATION	FOOD-PROCUREMENT	DOMESTIC-WATER-SUPPLY
benzene	5,300	a	a	a	54	5
chlorobenzene	250	50	a	a	1,000	130
dichlorobenzenes, total	1,120	763	a	a	2,600	a
o-dichlorobenzene	1,120	763	a	a	2,600	600
m-dichlorobenzene	1,120	763	a	a	960	b
p-dichlorobenzene	a	a	a	a	2,600	75
ether chlorinated benzenes, total	250	50	a	a	a	a
1,2,4-trichlorobenzene	250	a	a	a	940	260
1,2,4,5-tetrachlorobenzene	250	50	a	a	1.1	0.97
pentachlorobenzene	250	50	a	a	4.5	4.4
hexachlorobenzene	6	3.7	a	a	0.00029	b
ethylbenzene	32,000	a	a	a	28,742	700
nitrobenzene	27,000	a	a	a	600	b
pentachloronitrobenzene	250	50	a	a	a	a
vinylbenzene (styrene)	a	a	a	a	a	100
Ethers.....						
chloroalkyl ethers, total	238,000	a	a	a	a	a
bis(2-chloroethyl)ether	238,000	a	a	a	0.53	b
bis(2-chloroisopropyl)ether	238,000	a	a	a	66,000	b
bis(chloromethyl)ether	238,000	a	a	a	0.00029	0.0001
2-chloroethyl vinyl ether	360	120	a	a	a	a
halogenated ethers, total	360	122	a	a	a	a
chloromethyl methyl ether	238,000	a	a	a	0.00184	a
4,4'-dibromodiphenyl ether	360	120	a	a	a	a
hexabromodiphenyl ether	360	120	a	a	a	a
nonabromodiphenyl ether	360	120	a	a	a	a
pentabromodiphenyl ether	360	120	a	a	a	a
tetrabromodiphenyl ether	360	120	a	a	a	a
tribromodiphenyl ether	360	120	a	a	a	a
Halogenated Hydrocarbons.....						
chlorinated ethanes						
1,2-dichloroethane	18,000	2,000	a	a	b	b
1,1,1-trichloroethane	18,000	a	a	a	173,077	200
1,1,2-trichloroethane	18,000	9,400	a	a	16	b
tetrachloroethanes, total	9,320	a	a	a	a	a
1,1,1,2-tetrachloroethane	9,320	a	a	a	a	a
1,1,2,2-tetrachloroethane	9,320	2,400	a	a	3.3	b
pentachloroethane	7,240	1,100	a	a	a	a
hexachloroethane	980	540	a	a	3.3	b
chlorinated ethylenes, total	11,600	a	a	a	a	a
1,1-dichloroethylene	11,600	a	a	a	7,100	b
cis-1,2-dichloroethylene	11,600	a	a	a	a	70
trans-1,2-dichloroethylene	11,600	a	a	a	140,000	100
trichloroethylene	45,000	21,900	a	a	30	5

See previous note. on page number + header.

Table 1a. Aquatic Life, Agriculture, And Public Health Designated Uses Numeric Criteria.

PARAMETER	Use Category					
	AQUATIC LIFE	AGRICULTURE	LIVESTOCK	IRRIGATION	FOOD PROCUREMENT	DOMESTIC-WATER-SUPPLY
ACUTE	CHRONIC					
tetrachloroethylene	5,200	840	a	a	3.3	5
chlorinated propanes/prepenes						
1,2-dichloropropane	23,000	5,700	9	a	16	0.5
1,3-dichloropropene	6,600	244	a	a	14.1	b
Other Halogenated Hydrocarbons.....						
halogenated-methanes, total	11,000	a	a	a	15.7	100
bromomethane	11,000	a	a	a	1,500	b
1,2-dibromoethane	a	a	a	a	a	0.05
tribromomethane(bromoform)	11,000	a	a	a	140	b
bis(2-chloroethoxy)methane	11,000	a	a	a	15.7	a
bromodichloromethane	11,000	a	a	a	17	b
bromoethylchloromethane	11,000	a	a	a	15.7	a
bromochloromethane	11,000	a	a	a	15.7	a
dibromochloromethane	11,000	a	a	a	13	b
dibromochloropropane	a	a	a	a	15.7	0.2
dibromodichloromethane	11,000	a	a	a	15.7	a
dichlorodifluoromethane	11,000	a	a	a	15.7	a
dichloromethane(methylene chloride)	11,000	a	a	a	500	4.7
trichloromethane(chloreform)	28,000	1,240	a	a	470	b
tribromochloromethane	11,000	a	a	a	15.7	a
trichlorofluoromethane	11,000	a	a	a	15.7	a
tetrachloromethane(carbon-tetrachloride)	35,200	a	a	a	b	5
hexachlorobutadiene	90	9.3	a	a	18	b
hexachlorocyclopentadiene	7	5.2	a	a	206	50
v vinyl chloride	a	a	a	a	525	2
Miscellaneous Organics.....						
dioxin (2,3,7,8 TCDD)	0.01	0.00001	a	a	0.000000005	b
Isospherene	117,000	a	a	a	b	b
polychlorinated biphenyls, total	2	0.014	a	a	0.000064	b
tributyltin oxide	0.140	0.026	a	a	a	a
Nitrogen Compounds.....						
nitrosamines, total	5,850	a	a	a	1.24	0.0008
N-nitrosodibutylamine	5,850	a	a	a	0.22	0.0063
N-nitrosodiethanolamine	5,850	a	a	a	1.24	a
N-nitrosodiethylamine	5,850	a	a	a	1.24	0.0008
N-nitrosodimethylamine	5,850	a	a	a	3	b
N-nitrosodiphenylamine	5,850	a	a	a	6	b
N-nitrosodi-n-propylamine	a	a	a	a	0.51	0.005
N-nitrosepyrrolidine	5,850	a	a	a	34	0.016
acrylonitrile	7,550	2,600	a	a	0.25	b
benzidine	2,500	a	a	a	0.0002	b
3,3'-dichlorobenzidine	a	a	a	a	0.02	b

Table 1a. Aquatic Life, Agriculture, And Public Health Designated Uses Numeric Criteria.

PARAMETER	Use Category					
	ACUTE	CHRONIC	LIVESTOCK	IRRIGATION	PUBLIC HEALTH	DOMESTIC-WATER-SUPPLY
1,2-diphenyl hydrazine	270	a	a	a	0.2	b
Polymer Aromatic Hydrocarbons, total	a	a	a	a	0.0311	0.2
acenaphthene	1,700	520	a	a	990	670
acenaphthylene	a	a	a	a	0.0311	a
anthracene	a	a	a	a	40,000	b
benzo(a)anthracene	a	a	a	a	0.018	b
benzo(a)pyrene	a	a	a	a	0.018	b
benzo(b)fluoranthene	a	a	a	a	0.018	b
benzo(g,h,i)perylene	a	a	a	a	0.0311	a
benzo(k)fluoranthene	a	a	a	a	0.018	b
2-chloronaphthalene	a	a	a	a	1,600	1,000
chrysene	a	a	a	a	0.018	b
dibenzo(a,h)anthracene	a	a	a	a	0.018	b
fluoranthene	3,980	a	a	a	b	b
fluorene	a	a	a	a	5,300	b
idene(1,2,3 ed)pyrene	a	a	a	a	0.018	b
naphthalene	2,300	620	a	a	a	a
phenanthrene	30	6.3	a	a	0.0311	a
pyrene	a	a	a	a	4,000	b
Phthalate Esters						
phthalates, total	940	3	a	a	a	a
butylbenzyl phthalate	a	a	a	a	1,900	1,500
di(2 ethylhexyl) phthalate	400	360	a	a	b	b
dibutyl phthalate	940	3	a	a	b	b
diethyl phthalate	a	a	a	a	b	17,000
dimethyl phthalate	940	3	a	a	1,100,000	b
Phenolic Compounds.....						
phenol	10,200	2,560	a	a	1,700,000	b
2,4-dimethyl phenol	1,300	530	a	a	850	380
chlorinated phenols						
2-chlorophenol	4,380	2,000	a	a	150	81
3-chlorophenol	a	a	a	a	29,000	a
2,4-dichlorophenol	2,020	365	a	a	b	b
2,4,5-trichlorophenol	100	63	a	a	3,600	1,800
2,4,6-trichlorophenol	a	970	a	a	2.4	b
pentachlorophenol	table 1b	table 1b	a	a	3	b
3-methyl-4-chlorophenol	30	a	a	a	a	a
nitrophenols, total	230	150	a	a	a	a
2,4-dinitrophenol	a	a	a	a	5,300	b
4,6-dinitro-o-cresol	a	a	a	a	280	b
Toluenes.....						
toluene	17,500	a	a	a	b	1,000
dinitrotoluenes, total	330	230	a	a	0.1	a
2,4-dinitrotoluene	330	230	a	a	3.4	b

Table 1a. Aquatic Life, Agriculture, And Public Health Designated Uses Numeric Criteria.

PARAMETER	Use Category					
	AQUATIC LIFE ACUTE	AQUATIC LIFE CHRONIC	AGRICULTURE LIVESTOCK	AGRICULTURE IRRIGATION	PUBLIC HEALTH FOOD-PROCUREMENT	PUBLIC HEALTH DOMESTIC-WATER-SUPPLY
xylene	a	a	a	a	a	10,000
PESTICIDES (µg/L)						
-acetolin	68	24	a	a	200	100
-acrylamide	a	a	a	a	a	0.04
-alachlor (rasse)	760	76	100	a	a	2
-aldicarb	a	a	a	a	a	3
-aldicarb sulfone	a	a	a	a	a	2
-aldicarb sulfoxide	a	a	a	a	a	3
-aldrin	3	0.004	4	a	0.00005	b
-atrazine (aatrex)	470	3	a	a	a	3
-bromoxynil (MGPA)	a	a	20	a	a	a
-carbaryl (sevin)	a	0.02	100	a	a	a
-carbofuran (furadan)	a	a	100	a	a	40
-chlordane	2.4	0.0043	3	a	0.00084	b
-chlorpyrifos	0.083	0.044	100	a	a	a
-2,4-D	a	a	a	a	a	100
-dacthal (DCPA)	a	14,300	a	a	a	a
-dalapon	a	410	a	a	a	200
-diazinon (spectracide)	a	0.08	100	a	a	a
DDT and Metabolites.....						
-4,4'-DDE (p,p=DDE)	1,060	a	a	a	0.00022	b
-4,4'-DDD (p,p=DDD)	a	a	a	a	0.00034	b
-DDT, total	4.4	0.004	50	a	0.000024	b
-dieldrin	0.24	0.056	4	a	0.000054	b
-dineoseb (DNBP)	a	a	a	a	a	7
-diquat	a	a	a	a	a	20
-disulfoton (disyston)	a	a	100	a	a	a
-endosulfan, total	0.22	0.056	a	a	160	b
-alpha-endosulfan	0.22	0.056	a	a	89	62
-beta-endosulfan	0.22	0.056	a	a	89	62
-endosulfan sulfate	a	a	a	a	b	b
-endothall	a	a	a	a	a	110
-endrin	0.086	0.036	0.5	a	0.84	0.76
-endrin aldehyde	a	a	a	a	0.3	b
-epichlorehydrin	a	a	a	a	a	4
-ethylene dibromide	a	a	a	a	a	0.05
-fenchlorfos (ronnel)	a	a	100	a	a	a
-glyphosate (roundup)	a	a	a	a	a	700
-guthion	a	0.04	100	a	a	a
-heptachlor	0.52	0.0038	0.1	a	0.000079	b
-heptachlor epoxide	0.52	0.0038	0.1	a	b	b
-hexachlorocyclohexane	100	a	a	a	0.0414	0.0123
-alpha-HCH	100	a	a	a	0.0049	b

Table 1a. Aquatic Life, Agriculture, And Public Health Designated Uses Numeric Criteria.

PARAMETER	Use Category					
	AQUATIC LIFE		AGRICULTURE		PUBLIC HEALTH	
	ACUTE	CHRONIC	LIVESTOCK	IRRIGATION	FOOD-PROCUREMENT	DOMESTIC-WATER-SUPPLY
beta-HCH	100	a	a	a	b	b
delta-HCH	100	a	a	a	a	a
gamma-HCH (indane)	0.95	0.08	5	a	0.0626	b
technical HCH	a	a	a	a	0.0414	a
malathion	a	0.1	100	a	a	a
methoxychlor	a	0.03	1,000	a	a	40
methyl parathion	a	a	100	a	a	a
metribuzin (seneer)	a	100	a	a	a	a
mirex	a	0.001	a	a	0.000007	a
examyl (vydate)	a	0.001	a	a	a	200
parathion	0.066	0.013	100	a	a	a
picloram (terdon)	a	a	a	a	a	500
propachlor (ramrod)	a	8	a	a	a	a
simazine (princip)	a	a	10	a	a	4
texaphene	0.73	0.0002	5	a	0.00028	b
2,4,5-T	a	a	2	a	a	a
2,4,5-TP (silvex)	a	a	a	a	a	10

Table 1a. Aquatic Life, Agriculture, And Public Health Designated Uses Numeric Criteria.

PARAMETER	CAS NUMBER	Use Category					
		AQUATIC LIFE		AGRICULTURE		PUBLIC HEALTH	
		ACUTE	CHRONIC	LIVESTOCK	IRRIGATION	FOOD PROCUREMENT	DOMESTIC WATER SUPPLY
RADIONUCLIDES (pCi/L)							
beta / photon emitters	a	a	a	a	a	a	50
gross alpha particles including radium-226, but not radon or uranium	a	a	a	a	a	a	15
radium 226 and 228 combined	a	a	a	a	a	a	5
strontium 90	a	a	a	a	a	a	8
tritium	a	a	a	a	a	a	20,000
METALS (µg/L)							
antimony, total	7440360	88	30	a	a	640	6
arsenic, total	7440382	340	150	200	100	20.5	10
arsenic (III)	a	360	50	a	a	b 0.14	b 0.018
arsenic (V)	a	850	48	a	a	a	a
barium, total	7440393	a	a	a	a	a	1000 2000
beryllium, total	7440417	a	a	a	a	a	4
boron, total	7440428	a	a	5,000	750	a	a
cadmium, total	7440439	table 1b	table 1b	20	10	170	5
chromium, total	7440473	a	40	1,000	100	a	100
chromium (III)	16065831	table 1b	table 1b	a	a	3,433,000	50
chromium (VI)	18540299	16	11	a	a	3,400	50
copper, total	7440508	BLM ^d	BLM ^d	500	200	a	1300 1000
lead, total	7439921	table 1b	table 1b	100	5,000	a	15
mercury, total	7439976	1.4	0.77	10	a	0.146	b 2
nickel, total	7440020	table 1b	table 1b	500	200	4,600	610
selenium, total	7782492	20	5	50	20	4,200	470 50
selenium (V)	a	11.2	a	a	a	a	a
silver, total	7440224	table 1b	a	a	a	a	50 100
thallium, total	7440280	1,400	40	a	a	b 6.3 ^b	2
zinc, total	7440666	table 1b	table 1b	25,000	2,000	26,000	7400 5000
OTHER INORGANIC SUBSTANCES (µg/L)							
ammonia	Corrected million 7664417	table 1c	table 1c	a	a	a	a
asbestos (fibers>10µm) (µmillion-fibers/L)	12001295	a	a	a	a	a	7-000000
chloride	16887006	860,000	c	a	a	a	250,000
chlorine, total residual	7782505	19	11	a	a	a	a
cyanide (free)	57125	22	5.2	a	a	220,000	200
fluoride	16984488	a	a	2,000	1,000	a	2,000
nitrate (as N)	14797558	a	a	a	a	a	10,000
nitrite + nitrate (as N)	a	a	a	100,000	a	a	10,000
phosphorus, elemental (white)	7723149	a	0.1	a	a	a	a
sulfate	14808798	a	a	1,000,000	a	a	250,000
ORGANIC SUBSTANCES (µg/L) (EXCEPT PESTICIDES)							
A. Halogenated Ethers.....							
chloroalkyl ethers, total	a	238,000	a	a	a	a	a
bis(2-chloroethyl)ether	111444	238,000	a	a	a	0.53	b 0.030
2-chloroethyl vinyl ether	110758	360	120	a	a	a	a
bis(2-chloroisopropyl)ether	108601	238,000	a	a	a	65,000	b 1400

Table 1a. Aquatic Life, Agriculture, And Public Health Designated Uses Numeric Criteria.

PARAMETER	CAS NUMBER	Use Category					
		AQUATIC LIFE		AGRICULTURE		PUBLIC HEALTH	
		ACUTE	CHRONIC	LIVESTOCK	IRRIGATION	FOOD PROCUREMENT	DOMESTIC WATER SUPPLY
bis(chloromethyl)ether	542881	238,000	a	a	a	0.00029	0.0001
chloromethyl methyl ether	107302	238,000	a	a	a	0.00184	a
4,4'-dibromodiphenyl ether 4,4'-dibromodiphenyl ether	2050477	360	120	a	a	a	a
halogenated ethers, total	a	360	122	a	a	a	a
hexabromodiphenyl ether	36483600	360	120	a	a	a	a
nonabromodiphenyl ether	63936561	360	120	a	a	a	a
pentabromodiphenyl ether	32534819	360	120	a	a	a	a
tetrabromodiphenyl ether	40088479	360	120	a	a	a	a
tribromodiphenyl ether	49690940	360	120	a	a	a	a
B. Halogenated Aliphatic Hydrocarbons.....							
Chlorinated ethanes							
1,2-dichloroethane	107062	18,000	2,000	a	a	b 99 ^b	b 0.38 ^b
hexachloroethane	67721	980	540	a	a	3.3	b 1.9 ^b
pentachloroethane	76017	7,240	1,100	a	a	a	a
1,1,1,2-tetrachloroethane	630206	9,320	a	a	a	a	a
1,1,2,2-tetrachloroethane	79345	9,320	2,400	a	a	3.3 4.0	b 0.17
tetrachloroethanes, total	a	9,320	a	a	a	a	a
1,1,1-trichloroethane	71556	18,000	a	a	a	173,077	200
1,1,2-trichloroethane	79005	18,000	9,400	a	a	16	b 0.6 ^b
Chlorinated ethenes							
chlorinated ethylenes, total	a	11,600	a	a	a	a	a
chloroethylene (vinyl chloride)	75014	a	a	a	a	625 2.4	2
1,1-dichloroethylene	75354	11,600	a	a	a	7,100	b 7
cis-1,2-dichloroethylene	156592	11,600	a	a	a	a	70
trans-1,2-dichloroethylene	156605	11,600	a	a	a	140000 10,000	100
tetrachloroethylene (PCE)	127184	5,280	840	a	a	3.3	5 0.8 ^b
trichloroethylene (TCE)	79016	45,000	21,900	a	a	30	5 2.7 ^b
Chlorinated propanes/propenes							
1,2-dichloropropane	78875	23,000	5,700	9	a	15	0.5 5
1,3-dichloropropene	542756	6600 6060	244	a	a	14.1	b 10 ^b
Halogenated methanes							
bromochloromethane	74975	11,000	a	a	a	15.7	a
bromodichloromethane (dichlorobromomethane)	75274	11,000	a	a	a	17	b 0.55
bromotrichloromethane	75627	11,000	a	a	a	15.7	a
bis(2-chloroethoxy)methane	111911	11,000	a	a	a	15.7	a
dibromochloromethane (chlorodibromomethane)	124481	11,000	a	a	a	13	b 0.4
dibromodichloromethane	594183	11,000	a	a	a	15.7	a
dichlorodifluoromethane	75718	11,000	a	a	a	15.7	a
dichloromethane (methylene chloride)	75092	11,000	a	a	a	590	4.7 5
halogenated methanes, total	a	11,000	a	a	a	15.7	100
tetrachloromethane (carbon tetrachloride)	56235	35,200	a	a	a	b 4.4 ^b	5 0.25 ^b
tribromochloromethane	594150	11,000	a	a	a	15.7	a
tribromomethane (bromoform)	75252	11,000	a	a	a	140	b 4.3
trichlorofluoromethane	75694	11,000	a	a	a	15.7	a

Table 1a. Aquatic Life, Agriculture, And Public Health Designated Uses Numeric Criteria.

PARAMETER	CAS NUMBER	Use Category					
		AQUATIC LIFE		AGRICULTURE		PUBLIC HEALTH	
		ACUTE	CHRONIC	LIVESTOCK	IRRIGATION	FOOD PROCUREMENT	DOMESTIC WATER SUPPLY
trichloromethane (chloroform)	67663	28,900	1,240	a	a	470	b 5.7
<i>Other halogenated aliphatic hydrocarbons</i>							
hexachlorobutadiene	87683	90	9.3	a	a	18	b 0.44
hexachlorocyclopentadiene	77474	7	5.2	a	a	206 1,100	50
C. Monocyclic Aromatic Hydrocarbons except Phenols and Phthalates.....							
Benzenes							
aminobenzene (aniline/aniline)	62533	14	6.7	a	a	a	a
benzene	71432	5,300	a	a	a	51	5 1.2 ^b
ethylbenzene	100414	32,000	a	a	a	28712 2,100	700
nitrobenzene	98953	27,000	a	a	a	690	b 17
vinylbenzene (styrene)	100425	a	a	a	a	a	100
Chlorinated benzenes							
chlorobenzene	108907	250	50	a	a	1,600	430-100
dichlorobenzenes, total	25321226	1,120	763	a	a	2,600	a
1,2-dichlorobenzene (o-dichlorobenzene)	95501	1,120	763	a	a	2600 1300	600
1,3-dichlorobenzene (m-dichlorobenzene)	541731	1,120	763	a	a	960	b 400 ^b
1,4-dichlorobenzene (p-dichlorobenzene)	106467	a	a	a	a	2600-190	75
hexachlorobenzene	118741	6	3.7	a	a	0.00029	b 0.00075 ^b
other chlorinated benzenes, total	a	250	50	a	a	a	a
pentachlorobenzene	608935	250	50	a	a	1.5	1.4
1,2,4,5-tetrachlorobenzene	95943	250	50	a	a	1.1	0.97
1,2,4-trichlorobenzene	120821	250	a	a	a	940 70	260 70
Toluenes and xylenes							
2,4-dinitrotoluene	121142	330	230	a	a	3.4	b 0.11
dinitrotoluenes, total	25321146	330	230	a	a	9.1	a
toluene	108883	17,500	a	a	a	b 15,000	1,000
xylenes, total	1330207	a	a	a	a	a	10,000
D. Nitrogen Compounds Except Monocyclic Aromatics.....							
acrylonitrile	107131	7,550	2,600	a	a	0.25	b 0.059 ^b
benzidine	92875	2,500	a	a	a	0.0002	b 0.00012 ^b
3,3-dichlorobenzidine	91941	a	a	a	a	0.02 0.028	b 0.04 ^b
1,2-diphenylhydrazine	122667	270	a	a	a	0.2	b 0.04 ^b
nitrosamines, total	a	5,850	a	a	a	1.24	0.0008
N-nitrosodibutylamine	924163	5,850	a	a	a	0.22	0.0063
N-nitrosodiethanolamine	1116547	5,850	a	a	a	1.24	a
N-nitrosodiethylamine	55185	5,850	a	a	a	1.24	0.0008
N-nitrosodimethylamine	62759	5,850	a	a	a	3	b 0.00069
N-nitrosodiphenylamine	86306	5,850	a	a	a	6	b 5 ^b
N-nitrosodi-n-propylamine	621647	a	a	a	a	0.51	0.005
N-nitrosopyrrolidine	930552	5,850	a	a	a	34	0.016
E. Phenolic Compounds.....							
2,4-dimethyl phenol	105679	1,300	530	a	a	850	380
2,4-dinitrophenol	51285	a	a	a	a	5,300	b 69
nitrophenols, total	a	230	150	a	a	a	a
phenol	108952	10,200	2,560	a	a	4,700,000- 860,000	b 10,000